

HNGEY60	4205	920375	1 - 462	15 - 476	
HNGEY80	4206	790222	1 - 414	15 - 428	AC007252.
HNGEY84	4207	752239	1 - 467	15 - 481	Z82195, AL049795, AP001039, AC005295, and AC004707.
HNGEY45	4208	574462	1 - 405	15 - 419	
HNGFA28	4209	774277	1 - 666	15 - 680	
HNGFA39	4210	424813	1 - 471	15 - 485	
HNGFA41	4211	952235	1 - 135	15 - 149	
HNGFA67	4212	576719	1 - 305	15 - 319	
HNGFA80	4213	963490	1 - 613	15 - 627	C16718, AL041375, AI452836, AI090377, C16746, C16704, AA831426, AI797998, AI309943, AW338021, AA410788, AI431513, AI973173, AI474127, AI984168, AA558366, AA228778, AA503298, AI310670, AA721645, AI078409, AA599712, AW089625, AI627917, AI349130, AA747234, AI744905, AW163763, AA679946, AI921706, AW008184, AI338117, AI926706, AI283938, N54538, AI755214, AI754105, AA176604, AI355246, AI754421, AW151201, AI754567, AW275432, AI697239, AA703818, AI697242, AW194046, AA570740, AI192465, AA483606, AW190484, AI697235, R73744, H84412, AW272294, AI610737, AA829036, AI244127, AI310787, AI266359, AI280535, AA225406, AI371208, AA299589, AA019003, AI565126, AA405726, AI915081, AA584207, AW338035, N42508, AA584765, AA568204, AI635028, AA311535, N25079, AI299442, F30158, AI800426, AW337805, AI598056, H30475, AW023111, AA297666, AA489390, AI753887, AI243793, AI249688, AI285493, W60077, AI270647, AI537694, AL035977, AA845659, AI580260, AI453155, AI620992, AI828742, D44899, AI745116, AI469564, AA603400, AI433131, H73550, AI038304, AA856815, T49633, AI290405, AI039125, AA503019, AA501460, AI310464, AI056177, AI865213, AI521525, AI870453, T60666, AI858165, AI865196, AW020150, AI817230, AI537800, AI251576, AA683069, AI801695, H61754, AA581240, AA584484, AW084445, AI923052, U17576, Z93931, AL139054, AL031588, AL035587, AC009509, AL050307, AC003663, AC003042, AC005940, AL021453, AC007227, AC006501, AC005619, AP000211, AB003151, AC005839, AC007688, AC005919, AC005913, AC004383, AL031447, AC006597, AL009181, AC008101, AC004858, U85195, L43411, AC002310, AC002395, AL050348, AP000353, AC002425, AC006441, AC004605, AC005519, AP000133, AL022318, AF109907, AL133246, AC006511, AL022476, AC003041, I34294, AL133445, AL080243, AC005921, AL024507, AC007917, AC002550, AL035086, AC006241, AL008719, AC005071, Z95114, AC004448, AC006101, AE000660, AC004805, AC005207, AC006059, AC005670, AJ229041, AC000353, AC005527, AL031428, AL050312, AC007324, AC016027, AC007225, AC005255, AL109798, AL031622, AC009288, AC016830, AC005346, AC004211, AC005072, U95742, AL121754, AC004967, AP000210, AP000132, AC005914, L39891, AF002991, AC005529, Z84469, AC006317, AL022316, AC009247, AC007262, AL096791, AC007216, AC004811, AF045555, AC007021, AL022326, AC005201, AL133448, AC004223, Z95126, AC004699, U80460, AC008545, AC004706, U07563,

					AL022327, Z95152, AL049776, AC005369, AC004874, AC006210, AC005393, AC002375, AC005081, AL078471, AL109963, AL021579, AE000658, AL031584, AC005488, AC004707, AL109627, AL136295, AC004963, AC002477, AL121756, AC006251, AC002316, AL022323, AF207550, U91327, AL034379, AC004242, AL049575, X55448, AP000552, AC004966, AL022302, AC005215, Z98304, Z75890, AF196972, AL031846, AP000240, AC006132, AL049569, AP000688, AC004834, AL031295, AC005057, AF001550, AL049757, AC005971, AC005412, AF111168, AL121655, AC004992, AC008072, AC004598, AC004812, Z82178, AC007226, AL049758, AC004938, AL133243, AB015355, AL023281, AC002997, AF026069, AC005233, AL034417, AP001055, AL033375, AC003101, AC006449, AL035413, AL049780, AC005730, AL133371, AC005933, AP000501, AC006275, AC004673, AC005049, AF124731, AF019413, Z83838, Z92546, AL022336, AL049646, AC004659, AL008718, AC002394, Z83840, Z93241, AC007292, AL035400, AC004975, AC011718, Z78021, AC005280, AC008975, AC004033, AC004531, AC005900, AC007041, AC006930, AL031311, AL109827, AC005225, AC005778, AC007685, AP000152, AC008044, AC006455, AC005004, AL008726, AB023050, AC005578, AL031767, Z97989, D84394, AC006487, AC000111, AL008720, AC007899, AP000553, AC003684, AL008635, AC004929, AC002554, AC002312, Z82189, AC005279, AL133245, AL132826, AC005746, AC003982, AL009031, AC007999, L44140, AP000953, U82828, AC002326, AC006042, AC006252, and Z95327.
HNGFB08	4214	959738	1 - 365	15 - 379	
HNGFB52	4215	573575	1 - 325	15 - 339	
HNGFB57	4216	868072	1 - 249	15 - 263	
HNGFB74	4217	573024	1 - 160	15 - 174	
HNGFC71	4218	573160	1 - 352	15 - 366	
HNGFD63	4219	835997	1 - 458	15 - 472	
					AW247389, R61195, AL034418, AL049776, AC002551, AC005920, AC007707, AP000321, AC004520, AC006441, AC007934, AC005291, AC003072, AL021578, AC002351, AC005520, AC002115, AP000087, AP000167, Z85994, AP000121, AC004882, AC005529, AL033392, AC005620, and AP000226.
HNGFD75	4220	823462	1 - 354	15 - 368	
HNGFD85	4221	783467	1 - 394	15 - 408	AL049871.
HNGFD96	4222	968248	1 - 544	15 - 558	AA707443, H46169, and H51510.
HNGFF35	4223	805996	1 - 635	15 - 649	
HNGFG22	4224	573084	1 - 398	15 - 412	
HNGFG51	4225	725787	1 - 203	15 - 217	
HNGFG57	4226	860595	1 - 326	15 - 340	R06993, and AA779921.
HNGFG69	4227	926873	1 - 301	15 - 315	
HNGFH94	4228	966118	1 - 522	15 - 536	



HNGFI06	4229	935828	1 - 415	15 - 429	
HNGFI20	4230	578896	1 - 338	15 - 352	
HNGFI32	4231	699398	1 - 334	15 - 348	R98238, AC002306, and Z97192.
HNGFI81	4232	578892	1 - 402	15 - 416	
HNGFI27	4233	860591	1 - 382	15 - 396	
HNGFK28	4234	544726	1 - 977	15 - 991	
HNGFK44	4235	860589	1 - 255	15 - 269	
HNGFL04	4236	572833	1 - 330	15 - 344	
HNGFM50	4237	584729	1 - 392	15 - 406	D83779.
HNGFM74	4238	578884	1 - 510	15 - 524	
HNGFM79	4239	860585	1 - 287	15 - 301	AL049836.
HNGFN21	4240	572821	1 - 368	15 - 382	AA411753.
HNGFN56	4241	970740	1 - 337	15 - 351	
HNGFN65	4242	576698	1 - 473	15 - 487	
HNGFN96	4243	770209	1 - 281	15 - 295	<p>           AI306717, AI281622, AI270177, AI417586, AI065031, AA374797, AI251576, AI306232, AW274191, AI583466, AI002863, AA831801, AI559583, AA443778, AI798521, AW084173, AA832016, AI298995, AA443771, AI275989, AA205911, AW243793, AA229012, AA229730, T40629, AW019964, AA657910, AI133083, AI338526, AI955029, AW341955, AW439703, AI357628, AI499376, AI066646, H86579, AI471476, AI267356, AW242279, AA287502, AA761966, AI755202, H16875, AA496309, AA346870, AA573000, H50725, AW377926, AW028376, AA018923, AI982994, AA012829, H73306, N23919, AA226260, AI860535, AI278211, AI560073, AA126475, AI624379, AW392414, AA017240, AW408596, AA572813, AA704806, AA640252, AC007182, AC007563, AC006958, AC008040, AC005046, AC006511, Z85987, AC012627, AC004216, AC006973, AL049838, AC003976, AL049758, Z99496, AC003964, AL031985, AC005228, AB020868, AF165926, AC004999, AL049552, AL031429, Z83826, AC004797, AL031983, AL033527, AC005011, AC007225, AL078593, AF196970, AC007240, AC005697, AC006120, Z97054, AC005225, AC005004, AL035683, AL109847, Z98048, AF155238, AC005261, U52112, L47334, AL031280, AC006480, AC002390, AC003037, AC005632, AL096776, AC004067, U95740, AC004825, U50871, AL035252, AC005482, U91321, AC007376, AC007546, AC005057, AC004617, AC005874, AF134471, AL034420, AC005386, AC004003, AP000248, AC007160, AC007050, AL117258, AC002375, AL031291, AL132992, AL121578, AL031681, AL133445, AC009501, AC010200, AC005534, AC006137, AC007327, AF117829, AP000344, AC011456, AC005839, U82668, AP001058, L29074, AC005102, Z94056, AL139054, AL109628, AL049869, AC006116, AP000111, AL031663, AC007283, AC005737, AL024507, AC010206, AC006566, AF111168, AC007880, AC007536, AC003007, AC004975, AC004887, AB020863, AC006088, AC005366, AC005049, AL133355, AC005993, AL035420,         </p>

HNGFO46	4244	935135	1 - 255	15 - 269	AP000511, AL021937, AL096712, AF002993, Z86062, AC005048, AC004838, AC005593, AC003009, AC004817, Z82245, AL049631, AP000689, AC007368, AP000152, AC006040, AC006059, AB003151, AC003991, AC007312, AC006449, AE000659, AL034379, AC008119, AF111169, AC006388, Z95116, AC004814, AC004025, AL021154, AC004525, AC009946, AC009308, AL080243, AB023050, AC005207, AC002477, AC005095, AC006198, AC004103, AF055066, AL049766, AC007934, AF227510, AR036572, U91328, AC004832, AL049872, AL034582, AC005380, AC007263, AC004106, Z98941, AC004527, AL096703, AL022727, Z97055, AC004104, AL021918, Z84467, AC005233, AL035423, AC005878, AC004087, AL008987, AL096861, AP000692, AL035690, AL035551, AL049611, and AL035417.
HNGFO55	4245	572856	1 - 356	15 - 370	
HNGFO81	4246	526792	1 - 261	15 - 275	AC008981.
HNGFP02	4247	920483	1 - 336	15 - 350	
HNGFP08	4248	959730	1 - 362	15 - 376	AL008720.
HNGFP62	4249	573052	1 - 341	15 - 355	
HNGFP80	4250	931021	1 - 359	15 - 373	AC006453.
HNGFP93	4251	707332	1 - 347	15 - 361	AC007136.
HNGFQ36	4252	703715	1 - 358	15 - 372	
HNGFQ58	4253	576715	1 - 483	15 - 497	
HNGFR02	4254	920482	1 - 310	15 - 324	
HNGFR16	4255	573358	1 - 357	15 - 371	U51560, and Z80896.
HNGFR48	4256	860245	1 - 481	15 - 495	H80158.
HNGFR73	4257	646263	1 - 469	15 - 483	
HNGFR80	4258	576713	1 - 422	15 - 436	
HNGFR85	4259	572838	1 - 373	15 - 387	AC004605.
HNGFS46	4260	573094	1 - 403	15 - 417	
HNGFS58	4261	932396	1 - 315	15 - 329	
HNGFS71	4262	572828	1 - 328	15 - 342	Z68225.
HNGFT19	4263	671599	1 - 555	15 - 569	AL031055.
HNGFT77	4264	772335	1 - 396	15 - 410	
HNGFU12	4265	971170	1 - 412	15 - 426	AL050337.
HNGFU28	4266	860576	1 - 260	15 - 274	
HNGFU40	4267	559450	1 - 355	15 - 369	
HNGFV03	4268	924670	1 - 197	15 - 211	AC005155.
HNGFV32	4269	806047	1 - 409	15 - 423	
HNGFW09	4270	924693	1 - 327	15 - 341	

HNGFW15	4271	578901	1 - 206	15 - 220	
HNGFW31	4272	578864	1 - 317	15 - 331	
HNGFW82	4273	839957	1 - 230	15 - 244	Z68756.
HNGFW96	4274	959715	1 - 461	15 - 475	
HNGGA08	4275	959637	1 - 294	15 - 308	
HNGGA10	4276	964820	1 - 364	15 - 378	
HNGGA20	4277	764502	1 - 435	15 - 449	AC006160.
HNGGA40	4278	506337	1 - 343	15 - 357	
HNGGA44	4279	577362	1 - 248	15 - 262	AC005220.
HNGGA53	4280	576212	1 - 417	15 - 431	AC002288, AC004111, AC007130, AC003950, Z84487, AC005514, AC004905, AC003036, AC007030, AC005265, AL023807, AP000353, and AC022517.
HNGGA90	4281	572869	1 - 352	15 - 366	
HNGGB09	4282	881399	1 - 671	15 - 685	
HNGGE10	4283	964821	1 - 320	15 - 334	
HNGGE38	4284	576217	1 - 123	15 - 137	AC004583, and AC002041.
HNGGF02	4285	840277	1 - 289	15 - 303	
HNGGF03	4286	924587	1 - 371	15 - 385	
HNGGF06	4287	935709	1 - 361	15 - 375	AC008124.
HNGGF26	4288	577369	1 - 212	15 - 226	
HNGGF57	4289	576256	1 - 364	15 - 378	
HNGGG02	4290	920379	1 - 386	15 - 400	AF048728.
HNGGG10	4291	964818	1 - 296	15 - 310	
HNGGG15	4292	576294	1 - 314	15 - 328	
HNGGG18	4293	506304	1 - 318	15 - 332	
HNGGG22	4294	576267	1 - 263	15 - 277	
HNGGG25	4295	679153	1 - 99	15 - 113	
HNGGG26	4296	576298	1 - 320	15 - 334	
HNGGG50	4297	576295	1 - 372	15 - 386	
HNGGG56	4298	733510	1 - 297	15 - 311	
HNGGG63	4299	576296	1 - 365	15 - 379	
HNGGG76	4300	576231	1 - 359	15 - 373	
HNGGH38	4301	582695	1 - 330	15 - 344	H73720, AP000555, AL049588, Z85986, AC006130, AC005089, AL031282, AC006441, and U81831.
HNGGH48	4302	576705	1 - 349	15 - 363	
HNGGH57	4303	576278	1 - 172	15 - 186	
HNGGH64	4304	860426	1 - 410	15 - 424	

HNGGH74	4305	577192	1 - 332	15 - 346	
HNGGH78	4306	924908	1 - 419	15 - 433	
HNGGH95	4307	576214	1 - 330	15 - 344	
HNGGI08	4308	959639	1 - 316	15 - 330	
HNGGI52	4309	576270	1 - 352	15 - 366	
HNGGI58	4310	825371	1 - 103	15 - 117	
HNGGI81	4311	830081	1 - 274	15 - 288	H65090.
HNGGK31	4312	576259	1 - 58	15 - 72	
HNGGK53	4313	576253	1 - 296	15 - 310	
HNGGK86	4314	576247	1 - 313	15 - 327	AL023803.
HNGGK94	4315	576255	1 - 295	15 - 309	
HNGGL51	4316	576758	1 - 330	15 - 344	
HNGGM10	4317	964819	1 - 568	15 - 582	AC007766.
HNGGM41	4318	576284	1 - 356	15 - 370	
HNGGM56	4319	576219	1 - 356	15 - 370	
HNGGM67	4320	576220	1 - 367	15 - 381	
HNGGM76	4321	576287	1 - 286	15 - 300	AC005777.
HNGGM92	4322	576229	1 - 295	15 - 309	
HNGGN03	4323	924578	1 - 347	15 - 361	AC005325.
HNGGN04	4324	576263	1 - 267	15 - 281	AC006536.
HNGGN16	4325	576268	1 - 302	15 - 316	
HNGGN36	4326	708119	1 - 199	15 - 213	AW029269, AA077796, AI131261, H52283, AA496309, AI720943, AA666272, AA809179, AI417586, AW162303, AA629852, AW162047, AW161786, H86579, H30595, AA018923, AA012829, AI306717, H77442, W63553, T40629, AW084173, AW019964, AL038813, AI860535, AA946848, T06897, AI955029, AI332676, H30568, AW167909, AI357628, AI066646, AL037006, AI471476, AI475164, AW130427, AI755202, AA657910, R91633, AI833218, AL039309, AA424249, AI252828, AI254153, H79407, AI902426, AI254937, AA761036, AA774006, AI270149, AI251380, AI251949, AI252207, AA429481, AI251996, AI252979, AI254626, AI284684, AI251353, AI251298, AI255012, AI459866, AI254440, AW082076, AI251598, AI252933, AI223508, AI254658, AI241970, AW086319, AA665123, AI246059, AI255003, AI254673, AW086334, AI251976, AC004009, AL008715, AC008009, AC005881, U73330, AC002347, AL117258, AF111169, Z95331, Z83851, AC005765, AC000134, AC004801, AP001054, U47924, AC006312, AL049575, Z98946, AL022316, AC004797, Z93241, Z98044, AF042089, AL035685, AL008582, AC007981, Z83826, AC007993, AC015853, AC004542, Z98304, AP000052, AL023581, AC005190, AC005884, AC008372, AC005821, AL050318, AC005519, AC006057, AC006317, AC005666, Z75890, AP001050, AL023281, AL049570,

					AC009330, AC005235, AC005332, AC006255, AP000167, AC007528, AC005300, AL022314, AC007686, AL022162, AF095901, AC007934, AC005058, AL050307, AL035415, AL109627, AC006121, AL022238, AL031597, Z69653, AC006367, AC005529, AC006946, AL032821, AC006014, AC002477, AC004858, AC006050, AC007878, AF139658, AC003972, U95737, AC002094, AC006581, AC007225, AL049759, AC005488, AC008928, AL078600, AC002543, AC004895, Z83844, AC005510, AL031121, AL022326, AC006538, AC005606, AL079300, AC005480, AC004230, AL035588, AC007731, AC006950, AC005593, AC004685, AL034423, AL109984, AL021940, AC009542, AC007327, AC005089, AC006960, AC005358, Z99716, AC005197, AC002289, AL031906, AC002115, AC006141, AC004982, AL035414, AC004033, AC005520, AC005041, AC004882, AC002544, U90093, AC004491, AC007367, AC007435, AL022313, AC004841, AC004882, AC002544, U90093, AC004491, AC007367, AC007435, AF196970, AC006111, AP000252, AL035072, AC004596, AP000134, AP000212, AP000030, AL109939, AC004796, AF030453, AC009247, AL009181, AC004896, AC002350, AC010170, AC006947, AC006515, AC004760, AC004617, AC004812, AJ003147, AL031721, and Z82244.
HNGGN64	4327	577319	1 - 413	15 - 427	
HNGGN94	4328	967253	1 - 304	15 - 318	AC004592.
HNGGO01	4329	916754	1 - 432	15 - 446	
HNGGO14	4330	860246	1 - 314	15 - 328	AL022315.
HNGGO25	4331	576277	1 - 308	15 - 322	AL031279.
HNGGQ31	4332	576238	1 - 394	15 - 408	AC006013.
HNGGQ41	4333	712426	1 - 672	15 - 686	H71828, H71829, R97233, and R97234.
HNGGQ65	4334	576249	1 - 134	15 - 148	AB014078, AP000514, AC004209, and AC006139.
HNGGQ89	4335	577327	1 - 324	15 - 338	AL031033.
HNGGR01	4336	916753	1 - 843	15 - 857	AA292029, H71258, H49211, T81141, R81151, AW085137, N58701, AA814092, AW244149, AC003007, AF001549, AC002045, AL078613, Z98200, AC006000, and Z96074.
HNGGR10	4337	964815	1 - 241	15 - 255	
HNGGR17	4338	576250	1 - 215	15 - 229	
HNGGR43	4339	576246	1 - 433	15 - 447	
HNGGR74	4340	765698	1 - 244	15 - 258	
HNGGS09	4341	970861	1 - 386	15 - 400	
HNGGS26	4342	825369	1 - 398	15 - 412	AC005630, AC006328, AC004460, AC005154, and AC006312.
HNGGS33	4343	576305	1 - 414	15 - 428	
HNGGS41	4344	576308	1 - 64	15 - 78	
HNGGS66	4345	576312	1 - 401	15 - 415	
HNGGS67	4346	751781	1 - 248	15 - 262	
HNGGS73	4347	576740	1 - 391	15 - 405	AL034548, and AL035467.

HNGGS78	4348	576311	1 - 349	15 - 363	
HNGGT44	4349	576297	1 - 313	15 - 327	
HNGGT46	4350	719127	1 - 307	15 - 321	
HNGGT55	4351	576302	1 - 350	15 - 364	
HNGGT57	4352	576301	1 - 246	15 - 260	
HNGGT58	4353	576299	1 - 362	15 - 376	AC006212.
HNGGT62	4354	725750	1 - 117	15 - 131	
HNGGV07	4355	953549	1 - 276	15 - 290	
HNGGV55	4356	576313	1 - 286	15 - 300	
HNGGV70	4357	781247	1 - 497	15 - 511	
HNGGV95	4358	795920	1 - 423	15 - 437	AA486885, AA582911, AA644207, AA522942, AA873560, AA523815, AA487858, AA595825, AA088202, R95704, AW104748, AA196796, AA719080, AA480790, AA488573, R91159, AA620464, AW080134, AW162049, AA504871, AI929531, AI339850, AI469003, AI038785, AI962050, AI567674, AA111909, AW440836, AI570261, AI133636, AW029038, AA713815, AI625244, AA482711, AA634146, AI679782, AI251436, AA634145, AI251002, N22018, AA496260, AA837084, AA483068, AI890923, AW166815, AA115968, AI917271, AA550758, AA531372, AI049722, AI120674, C06458, T08438, AA768905, AA348929, AI368745, U51696, AA151980, AA767376, AA729721, AI608626, AA190911, AI918421, AA312845, AA113186, C05755, T94075, AA159052, AA132833, C06327, AA099892, AI119391, AA192470, R23229, AA045894, AA714055, AW131034, AA826303, AA923516, AW088616, AA515051, AA663486, AA533725, H78195, AA810370, R79819, H85382, AA079707, AI904894, F17761, AI281468, AA593247, AA678436, AI499134, AA652764, H04276, AI358571, AW075511, AW300625, AA340747, AA303161, AA604854, AA548689, AI362368, AA861959, AI446464, AA846936, AA573020, AA837677, AA670468, AA493708, AA623002, AA492166, AA133130, AA670158, AA583955, AW419118, F09736, AA521399, AA252763, AW079659, AA194761, AA525824, AA856858, AA491284, AA554319, T56472, AA709005, AA630925, AA906889, AA682912, AI298710, AA649705, AW439558, AA171416, AA721981, H43312, N55273, AA521323, AA644538, AA577906, AA469451, AI064864, AI610159, T52733, AA603156, AA069022, R97934, N25296, AI278997, AA346458, T07451, F29989, AA708352, AA599920, AI365988, AA406755, AA156538, AA280632, AA630030, AA490183, AA765170, AA079101, AW193432, AA483223, AI982525, AI471543, AA602528, AI547286, T53128, AI471481, AA644551, AA551503, AA635442, AA654771, AA970213, AA654761, AA352803, AA324164, AA653618, AA834755, AA338486, AI284640, AA370035, AA664015, AL046409, AI358229, T15897, AA604869, T28550, AA350859, D57369, AI061334, AA491814, AA679514, N59782, AA143516, AA720548, AI568678, AI754955, W79504, AI859742, AA115165, AA199616, AA633582, AA446657, N38987, AA825455, R88421, AA569214, AA973803, AA134335, AA302963, AI299050, AA668578, AL041412, AA284179, AI358343, AA828042, AA513972, AA503283,

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HNGGX46	4359	868071	1 - 327	15 - 341	
HNGGX49	4360	860551	1 - 318	15 - 332	AC006482.
HNGGX91	4361	576188	1 - 266	15 - 280	

HNGGX93	4362	576193	1 - 263	15 - 277	Z64732.
HNGGX95	4363	576222	1 - 279	15 - 293	
HNGHXA08	4364	953539	1 - 399	15 - 413	
HNGHXA10	4365	860553	1 - 584	15 - 598	AC005304.
HNGHXA47	4366	576213	1 - 337	15 - 351	
HNGHXA70	4367	576300	1 - 378	15 - 392	AA601995, AA565285, AW151732, AA551798, AC006960, AC002119, AF064860, AC005988, AC008372, AC005738, AB001523, AC006480, AL035658, AL096712, AL121655, AC003075, AC004259, AC004600, AP000558, AC006017, AC005089, AL021391, AC009516, AL096794, AL121603, AL034343, AC003681, AC004231, Z82244, AL021877, AL035464, AC005730, AC007371, AB000882, AC006445, AL031289, AL020997, AC006111, and AC005914.
HNGHA77	4368	772279	1 - 447	15 - 461	
HNGHB07	4369	860552	1 - 372	15 - 386	
HNGHB31	4370	576306	1 - 537	15 - 551	AA458724.
HNGHB33	4371	506261	1 - 128	15 - 142	
HNGHB48	4372	463007	1 - 625	15 - 639	
HNGHB55	4373	733509	1 - 506	15 - 520	AL132987.
HNGHB80	4374	576769	1 - 517	15 - 531	AI920851, AA338474, T27234, AA326098, AW317023, R68640, AI818313, AA829693, AA370883, AA366269, AC006255, AC002350, AC007052, AF111167, AC009891, AL117258, Z75890, AL023281, AF179633, AL035470, AC002289, AL035698, AC006409, AL050321, Z99128, AP000210, AP000132, AP000248, AC006101, AL133246, AF152365, AC003045, AP000300, AP000045, AP000113, AC002543, and AC005027.
HNGHB91	4375	576215	1 - 515	15 - 529	
HNGHD04	4376	932099	1 - 327	15 - 341	
HNGHD09	4377	860544	1 - 394	15 - 408	U91326, and AC002544.
HNGHD22	4378	576314	1 - 303	15 - 317	Z83733, and AL049749.
HNGHD25	4379	506262	1 - 306	15 - 320	
HNGHD59	4380	836226	1 - 344	15 - 358	
HNGHD67	4381	576317	1 - 430	15 - 444	AC004520.
HNGHE07	4382	953540	1 - 333	15 - 347	
HNGHE17	4383	576209	1 - 330	15 - 344	
HNGHE52	4384	576197	1 - 312	15 - 326	AC002038, AC006352, AC002041, AP000543, AC006359, and AC002307.
HNGHE56	4385	577124	1 - 344	15 - 358	
HNGHE62	4386	576202	1 - 266	15 - 280	AA864653, AI089093, AI470199, AA757250, AI038529, AA654837, H12636, AI612981, T61868, AA012846, AI658809, AA582114, AA115234, AA115354, AC004972, AL021330, Z93018, AC006924, AC006020, AL031684, AL121866, AL021182, Z70719, AC008013, AB023048, AP000511, AC002072, AF027598, Z82200, AC004474, AL034485, AL022153, AC007165,



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HNGHE69	4387	753107	1 - 503	15 - 517	AP000024.
HNGHE95	4388	779951	1 - 198	15 - 212	
HNGHG15	4389	971736	1 - 382	15 - 396	
HNGHG22	4390	577414	1 - 326	15 - 340	AC005033, and AC006544.
HNGHG56	4391	576230	1 - 353	15 - 367	AC004536.
HNGHG68	4392	576232	1 - 334	15 - 348	AC002351.
HNGHG71	4393	576218	1 - 346	15 - 360	
HNGHJ26	4394	924570	1 - 379	15 - 393	
HNGHK13	4395	577354	1 - 334	15 - 348	
HNGHK42	4396	582685	1 - 301	15 - 315	
HNGHK44	4397	576208	1 - 281	15 - 295	AL050342.
HNGHK46	4398	576205	1 - 308	15 - 322	
HNGHK48	4399	576206	1 - 320	15 - 334	
HNGHK50	4400	576195	1 - 364	15 - 378	
HNGHK53	4401	576191	1 - 343	15 - 357	AL034343.
HNGHK68	4402	576207	1 - 192	15 - 206	AC006120.
HNGHK77	4403	772277	1 - 482	15 - 496	
HNGHL10	4404	964814	1 - 352	15 - 366	
HNGHL20	4405	973969	1 - 550	15 - 564	AC000067, AL021332, AL034548, AF064860, AC010197, and U95740.
HNGHL22	4406	576326	1 - 363	15 - 377	AI052117, AI057562, AI369836, AI360398, R84933, AI289003, AI870646, AA767953, AI672430, AW274266, and AI926637.
					Z54246.
HNGHL51	4407	576223	1 - 221	15 - 235	
HNGHL52	4408	576226	1 - 414	15 - 428	
HNGHL65	4409	576320	1 - 243	15 - 257	AC005375.
HNGHL76	4410	506269	1 - 348	15 - 362	AC005953.
HNGHL77	4411	772283	1 - 293	15 - 307	
HNGHM33	4412	576741	1 - 302	15 - 316	
HNGHM36	4413	576325	1 - 355	15 - 369	

HNGHM51	4414	713805	1 - 394	15 - 408	
HNGHN22	4415	421742	1 - 433	15 - 447	AL034402, and AL049871.
HNGHN40	4416	576165	1 - 244	15 - 258	
HNGHN42	4417	576111	1 - 237	15 - 251	
HNGHN52	4418	576681	1 - 341	15 - 355	AA393776, AI149821, AI339278, AA436071, AI125367, and AA397838.
HNGHN56	4419	733881	1 - 416	15 - 430	AI183881, AI085895, AW014092, AL023656, AL121588, AL132826, AL035090, Z94722, AI008627, AL021877, and AL033381.
HNGHN70	4420	576108	1 - 434	15 - 448	
HNGHN75	4421	576110	1 - 427	15 - 441	
HNGHN76	4422	576170	1 - 218	15 - 232	
HNGHN86	4423	785566	1 - 203	15 - 217	AA456578, AI471887, AI198588, AA635739, AL042757, AI873761, AA478355, AA226715, AI955807, AA452832, AA493695, W01230, AA610491, AA584876, AI110688, AA493975, AW084466, AW275510, AA634889, N49368, AI687343, AI308402, AI700109, AL120086, AL119984, AI345157, AW089625, AA372481, AA702729, AW002350, AI133297, AW069769, AI278087, AI953275, AA279421, AI635819, AA808877, AL046409, AI431303, AW302903, AW263415, AA633753, AA019312, AL037554, AW269117, AA224083, AA780503, AI932599, AI470646, AI133164, AA497023, AA618452, AA724333, AI005388, AW023990, AW270657, AA493136, AL041690, AI305766, C15893, AL037683, AW168618, AW268973, AL048925, AA708664, AL041453, AI344812, AL043009, AI334464, AW193461, AA468022, AI926855, AA564570, AW270343, AI340641, AA719524, AA908687, AA501762, AA584167, AL041444, AI223604, AA629872, AI873852, AW080777, AL045053, AA551975, AI039584, HZ5921, AA356089, AI932493, AA541423, AW193265, AA478297, AI311927, AA613345, AA531079, AI691091, AL118991, AI350211, AA569240, AI754658, AW131249, AI860013, AA455483, AI633390, AA018283, AA487621, T06754, AI927116, AA488746, AI250083, AA065093, AI912383, AL037040, AL043289, AA831132, AI479966, AI284640, AA299189, AA380354, AA613397, AI584186, AI933534, AW149313, AL138455, AI954260, AA774059, AI207496, AA297769, AI525319, AI217936, AI275355, AA639326, AI038799, AA127426, AA663170, AA326372, AL042853, AW104030, AL040061, T92271, R35746, AW020340, AI003255, AA715267, AA101689, AI268334, AI268336, F07743, AA992891, AA402129, AI754253, AA715255, AA581903, T41247, AJ006997, AC007514, AC002385, AC006556, AL049699, AC004491, AC005745, AC006568, AC007206, AC007708, AC008018, AL049576, AC008079, AC009288, AI022326, AP000550, AL031577, AC007666, AC006285, Z83826, AC008039, AF109907, AC006022, AC005923, AF111168, AC007666, AC006285, Z83826, AC008039, AF109907, AC006022, AL118507, AC006251, AC005696, AL031665, AC005871, AL008718, AL133445, AC005829, AC000029, AC004913, AC006004, AL049569, AC007421, Z82244, AC012398, Z83840, AC006059, Z93943, AC010072, AC006014, AC004519, AL035461, AC004024, AC007214, AC007879, AC002470, AC004227, AC007637, AC008268, AL035419, AC003986, AL135783,

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HNGHN93	4424	506259	1 - 342	15 - 356	
HNGHN94	4425	970856	1 - 423	15 - 437	
HNGHN95	4426	576127	1 - 426	15 - 440	Z96194.
HNGHO02	4427	920373	1 - 329	15 - 343	
HNGHO10	4428	964804	1 - 305	15 - 319	
HNGHO15	4429	576168	1 - 213	15 - 227	
HNGHO26	4430	420281	1 - 236	15 - 250	AC010168.
HNGHO28	4431	576173	1 - 361	15 - 375	AC007563.
HNGHO32	4432	575735	1 - 368	15 - 382	
HNGHO36	4433	576142	1 - 367	15 - 381	
HNGHO62	4434	840278	1 - 311	15 - 325	
HNGHO66	4435	576174	1 - 369	15 - 383	
HNGHP28	4436	576178	1 - 294	15 - 308	

HNGHP66	4437	576136	1 - 126	15 - 140	AC006352, AC007028, AB019440, AB019438, and AB019437.
HNGHP74	4438	577357	1 - 192	15 - 206	
HNGHP91	4439	576053	1 - 225	15 - 239	
HNGHP95	4440	577335	1 - 412	15 - 426	
HNGHQ27	4441	683507	1 - 331	15 - 345	
HNGHQ43	4442	576262	1 - 429	15 - 443	
HNGHQ55	4443	576144	1 - 237	15 - 251	
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HNGHQ72	4444	576105	1 - 431	15 - 445	AC000091, AF012130, and AF012131.
HNGHQ76	4445	770126	1 - 234	15 - 248	
HNGHQ96	4446	723008	1 - 428	15 - 442	
HNGHR04	4447	576196	1 - 435	15 - 449	
HNGHR79	4448	576199	1 - 423	15 - 437	
HNGHR83	4449	576210	1 - 426	15 - 440	AL139054.
HNGHT06	4450	935706	1 - 361	15 - 375	AA204714, AA487224, AL267391, AL267160, AW438516, T59853, AA128726, AL267405, AA774106, T51817, T52748, AL267270, AC004902, X82942, M21305, M77220, AF002202, and M77221.
HNGHT92	4451	576149	1 - 235	15 - 249	
HNGHY07	4452	953531	1 - 380	15 - 394	
HNGHY31	4453	577363	1 - 433	15 - 447	
HNGHY54	4454	730769	1 - 312	15 - 326	
HNGHY78	4455	576139	1 - 318	15 - 332	
HNGHZ17	4456	860532	1 - 430	15 - 444	
HNGHZ48	4457	576181	1 - 137	15 - 151	
HNGHZ51	4458	716649	1 - 300	15 - 314	
HNGIA19	4459	576269	1 - 433	15 - 447	
HNGIA40	4460	576155	1 - 432	15 - 446	
HNGIA66	4461	678887	1 - 430	15 - 444	
HNGIC34	4462	934280	1 - 462	15 - 476	
HNGIC67	4463	576177	1 - 297	15 - 311	
HNGID03	4464	921946	1 - 249	15 - 263	
HNGID11	4465	967226	1 - 338	15 - 352	
HNGID15	4466	660299	1 - 432	15 - 446	AL133216.

HNGID16	4467	576114	1 - 329	15 - 343	
HNGID33	4468	868069	1 - 110	15 - 124	AC005072, and AF006752.
HNGID67	4469	751668	1 - 334	15 - 348	Z68324.
HNGID78	4470	576117	1 - 386	15 - 400	
HNGID80	4471	576120	1 - 352	15 - 366	
HNGID89	4472	577358	1 - 196	15 - 210	
HNGID91	4473	577189	1 - 430	15 - 444	
HNGIH02	4474	920362	1 - 339	15 - 353	
HNGIH56	4475	576122	1 - 233	15 - 247	AC003976.
HNGIH94	4476	576123	1 - 260	15 - 274	
HNGII16	4477	576154	1 - 77	15 - 91	
HNGII47	4478	576156	1 - 175	15 - 189	
HNGII50	4479	915340	1 - 319	15 - 333	
HNGII74	4480	576158	1 - 367	15 - 381	
HNGII76	4481	576153	1 - 99	15 - 113	
HNGII85	4482	576102	1 - 274	15 - 288	
HNGIU01	4483	916748	1 - 345	15 - 359	
HNGIU05	4484	925597	1 - 325	15 - 339	AL079339.
HNGIU11	4485	964809	1 - 334	15 - 348	
HNGIU59	4486	860526	1 - 311	15 - 325	
HNGIJ66	4487	576224	1 - 152	15 - 166	
HNGIJ67	4488	506355	1 - 373	15 - 387	
HNGIJ96	4489	779901	1 - 436	15 - 450	AI688289, AC003968, AC003960, AJ009632, Z84477, AC006374, AC008064, AC004051, AL133224, AC005156, AC000119, AC004137, AP000701, and AC006254.
HNGIK41	4490	712362	1 - 238	15 - 252	
HNGIK42	4491	713817	1 - 316	15 - 330	
HNGIK77	4492	772230	1 - 423	15 - 437	
HNGIL27	4493	839952	1 - 500	15 - 514	
HNGIL43	4494	715328	1 - 437	15 - 451	
HNGIM04	4495	615308	1 - 438	15 - 452	
HNGIM46	4496	653221	1 - 428	15 - 442	
HNGIM76	4497	770078	1 - 263	15 - 277	AC005251.
HNGIM90	4498	788715	1 - 341	15 - 355	AW089101, AA493894, AW089604, W45350, AA478355, AI630176, AJ783581, AI345418, AW410354, AL038072, AA303007, AA633753, AW069084, AA721047, R99518, AL049636, AC011311, AP000151, AL109984, AL031668, D87675, AL022323, AC006241, U85195, AC019014, AC005531, AC007390, AE000658, AC004217, AJ003147, AC005682, AL021155,

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HNGIM92	4499	783495	1 - 245	15 - 259	AC007226, AC007216, and U95742.
HNGIN11	4500	964991	1 - 553	15 - 567	
HNGIN18	4501	666515	1 - 436	15 - 450	
HNGIN28	4502	860521	1 - 440	15 - 454	
HNGIO15	4503	660320	1 - 392	15 - 406	
HNGIO77	4504	576857	1 - 365	15 - 379	AL050318.
HNGIP30	4505	577338	1 - 324	15 - 338	AI633157.
HNGIP39	4506	840215	1 - 340	15 - 354	AW450501, AI444815, AI444830, and C20642.
HNGIP42	4507	860518	1 - 377	15 - 391	
HNGIP72	4508	575752	1 - 321	15 - 335	
HNGIQ28	4509	860510	1 - 422	15 - 436	
HNGIQ43	4510	715324	1 - 405	15 - 419	N52389, and AC006487.
HNGIQ48	4511	720944	1 - 406	15 - 420	
HNGIQ66	4512	506352	1 - 345	15 - 359	AF001550.
HNGIR34	4513	719088	1 - 422	15 - 436	
HNGIR92	4514	524799	1 - 382	15 - 396	AA642060, AW021583, AA364701, AI471543, AA630362, AA320748, AW270382, AA302308, AA828680, AA121651, AA534010, AA535406, AA829106, AI625292, D25870, AW245747, AA508509, AA515549, AA310158, AA947547, AA584752, AI672135, AA338522, AA346692, AA384502, AA614069, AA584201, AI674873, AA482801, R65755, AA503600, AI343137, AL109842, AL008635, AP000230, Z83840, AP000144, AC004098, AC006251, AL022326, AC006430, AC009516, Z98200, AC002350, AC007488, AC004254, AP000330, AL021937, Z99716, AL121658, U95740, AL022238, AC010200, AC000052, AL022476, Z14320, AC002310, AL023807, X87344, AC004019, AC005412, AL080243, AC005041, AC005778, AC008372, AC005736, AC006111, AC005324, AL117694, AC004526, AC005280, AC007676, AL035079, AP000352, AC005251, U85195, Z85986, AL023284, AE000658, AC002985, AC005197, AL122003, AL031848, Z93017, AC008079, AC002045, AD000092, AC006271, AL109984, AL022318, AC005212, AL078581, AP000356, AL121603, AF217403, AC007684, AC005181, AC016027, AP000553, AC016830, U91326, AB001523, AC006115, AC006449, AC006001, U95742, Z69919, AF055066, AP000556, AC007216, AL109837, AC005888, AC007193,

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HNGIS13	4515	575753	1 - 433		15 - 447	
HNGIS30	4516	575758	1 - 387		15 - 401	
HNGIT70	4517	953890	1 - 337		15 - 351	
HNGIU55	4518	576804	1 - 356		15 - 370	
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						T89425, AA767864, AW182499, AC005048, AL096791, AC002288, AL049776, AC005335, AC003041, AL121658, AL133163, Z97053, AL024498, AC005822, AL096712, AJ004799, AL096677, AC007773, AP000152, and AC005321.
HNGIU78	4519	666261	1 - 1165		15 - 1179	AI990528, N32583, AI912629, AI797685, AW271508, N48797, N63434, AA028097, AA600208, AI625030, AI400958, AI634765, AI476166, AA028193, N53089, AA027192, AA983548, AI275119, N95741, AI985384, AI089985, AI436753, H46571, AA948552, AI961496, N41920, AW268829, H82459, H30219, AA761602, AA595696, AA702431, AA813396, H57726, AA204768, AI357228, AA973078, H82509, AI650605, AI954387, H89069, AA279240, AI572804, AA027191, AI000790, AI221539, N45589, T87206, R22923, AA456515, AI805811, AI521168, AI253183, AA815372, H30888, AL119319, AL039912, AW392670, AL119484, AL119324, AL134527, AL119335, U46347, AL119391, AL134525, U46351, AL119457, AL119522, AW363220, AW384394, AL119363, AL119497, AL119355, U46341, AL119444, AW372827, Z99396, AL042542, AL043003, U46346, AI064830, AB026436, AR043113, AR066494, AR060234, and A81671.
HNGIV01	4520	913687	1 - 483		15 - 497	
HNGIV24	4521	766775	1 - 198		15 - 212	
HNGIV81	4522	777970	1 - 720		15 - 734	AL049743.
HNGIW70	4523	883086	1 - 572		15 - 586	H90844, AF111168, Z85986, AP000088, AC007565, AC010197, AP000556, AC004167, AC002470, AC009516, AC004526, AC004030, AP000228, AF111169, AC006160, AP000140, AC004560, AC006120, AC006509, U91326, AP000552, AL031295, AC007546, Z84469, AL079342, and AC005940.
HNGIW73	4524	764456	1 - 345		15 - 359	
HNGIY22	4525	674660	1 - 261		15 - 275	
HNGIY36	4526	707323	1 - 182		15 - 196	



HNGIY56	4527	868065	1 - 339	15 - 353	
HNGIY60	4528	740404	1 - 148	15 - 162	AA448018, and AB016816.
HNGIY79	4529	775229	1 - 518	15 - 532	AA306200, H09834, and Z99714.
HNGIY92	4530	792737	1 - 349	15 - 363	AI268789, AL031297, and AL021155.
HNGIZ36	4531	670962	1 - 388	15 - 402	
HNGIZ56	4532	733439	1 - 303	15 - 317	AC006465.
HNGIZ69	4533	757599	1 - 423	15 - 437	
HNGIZ82	4534	668704	1 - 409	15 - 423	AI674585, and AW137161.
HNGJA15	4535	787570	1 - 959	15 - 973	AL110505.
HNGJA18	4536	666512	1 - 292	15 - 306	
HNGJB34	4537	936011	1 - 424	15 - 438	T15352, AA586366, AA585098, AA585325, T18597, AA170832, R29657, R45895, AA585101, D53161, Z32822, C15406, Z32887, D57491, D59751, R28735, R29445, C15069, D61185, AI557718, AA585155, AI557740, AI525316, AA585378, AI557262, AI526184, R28892, AI557864, AI541356, R28965, AA585439, Z28355, AI526140, AI541365, AI525500, D60765, D54897, AA585329, D60844, D59436, R29218, C16294, AI526078, AI541517, AI557731, R28967, R28895, AI557727, AI541205, AI541535, AI546971, AI525556, C16315, Z33559, AA283326, AI541383, AA585476, AI546999, AI547250, AI557763, AI546875, D55233, AI540903, AI526016, AI547039, D61254, D53447, AI557734, AI557084, C16292, C15120, C15762, D54850, D52835, D53472, D51433, AI557787, AI541346, C16300, AI541013, AI535639, C16293, AI557807, AI525306, C16305, C15737, AI557809, AI541374, AA585356, D60730, AI557758, AI546945, AI525431, AI526191, AI557155, AI541034, AI547196, D59458, C16296, AI526194, AI557408, AI547202, AI541523, AI557533, R29179, Z30131, AI525339, D57186, AI526112, AI557602, AI546831, AI546921, AI541307, AI526109, AI546996, AI540967, AI546891, AI547006, AI526024, AI526117, D78224, AI525856, AI557279, AA585430, AI540974, AI535660, AI541321, AI541515, AA585453, AI525320, AI557808, Z36724, C14208, AI526176, AI541402, R29262, AI557852, R29172, AI541492, AI526113, AI526195, R29177, C16290, AI541527, AI546829, AI526158, AI526146, AI556967, T19407, AI546901, AI541516, AI557317, AI536138, AI525168, AI541422, AI557039, AI526073, AA585389, AI526205, AI547137, AI541510, AI525656, AI557786, T41289, AA514191, AI557264, AI525332, AI557799, AI526180, AI557810, AI526187, AI546954, AI525286, AI525114, AI524904, AI557041, AA585117, AI547189, AI541423, AI541027, AI524891, AI525076, T41329, AA585434, C14210, D61060, C14322, AI541506, AI541415, AJ239433, AP000543, AR038855, AR062871, A25909, Y09813, X82786, A85395, A70872, A70869, A85476, X76012, AR037157, X81969, U87250, Z32836, AJ244005, Y16359, AR054723, AF082186, AR038762, AR031358, D50010, X55486, AR031365, D13509, AJ244004, A20702, AR062872, AR062873, A20700, D78345, A43189, A43188, AR017907, AJ244003, AJ244006, AR017826, AJ243486, AC005913, AR003381, A98420, A98423, A98432, A98436, A98417, A98427, AR008429, Z30183, A62298, AF213384, AR050070,

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HNGJB52	4538	724406	1 - 432		15 - 446	AC005950, and AC001228.
HNGJB68	4539	753060	1 - 371		15 - 385	AA618452, A1284640, AW270382, AL121235, A1537506, A1539563, A1357551, A1364809, A1431303, A1754955, AA720702, AW021583, AA658362, AA747777, A1457397, AA533303, AA548511, AA503475, A1679045, AL040921, AA593247, AA713891, A1434695, A1358431, AL046457, A1038123, AL044858, AA584145, AL038474, A1821271, AA101689, N27584, A1355224, AA523838, AA535406, F17891, A1745325, AA724333, AA804962, A1674873, AA534204, AW265699, AA683258, AA534010, A1270248, A1246119, A1053790, A1805607, A1684097, AA856954, AA053635, A1022328, AC004139, AP000459, AC007308, AL031283, AC006153, Z93241, Z98036, D87675, AC004019, AL031848, AC004673, AP000745, AC004808, AC005242, AC006480, AC007057, AL049872, AC000052, AP000556, AL031670, AP000349, AL049760, AF134726, AC007242, AC004386, AC002470, AC007514, AC004499, A1031668, AP000088, AL008718, AC005815, AC006948, AP000122, AP000054, AC006991, AP000553, AL031346, AL009179, AC005231, AC010205, AC005902, Z83845, AC007040, AL022329, AC009405, AL049758, AL049539, AC005787, AC007262, AL034451, AL050318, AC005940, AL022721, AL049766, AC005004, AL049829, AC003684, AP001137, AL031295, AL022238, AL049699, AL049692, AP001053, AC011456, AC005089, Z83840, AC005632, AL133245, AC007748, AC005324, AC002316, AC005768, AL078472, AC005923, AC002301, AL024498, AL118516, AC005409, AP000031, AC004492, AC005005, U62317, AL118497, U52112, AC005250, AE000658, AL049643, AC006006, AC000353, AC006042, Z75746, AC002365, AC006132, AC005512, AF107885, U85195, AL096701, AC005844, AP000403, AC007226, AC002310, AL121877, AL080317, AC003668, AL022323, AB009667, Z97056, U07000, AF042090, AC005071, AL035249, AP001054, AC005332, AC005043, Z86090, AC005900, AB001523, AP000326, AC004638, AC005154, AP000023, AC004531, AC009516, AC004600, AC005924, AC006322, AC004963, AC003986, AL118509, AC009227, AC000067, AC004876, AL008582, AP000169, AC005509, AL050341, AF038458, AC004230, AC006071, AL049780, AC007666, Z82215, AC002404, M87919, AC005527, AC012627, AC007298, AC006515, AP000966, AC009044, AC005225, AL078623, D84394, AL035587, AL023284, AC005180, AC004675, AP000356, AC002418, AL049873, AL031257, AC005781, AL034553, U95743, L77570, AL132994, and AC007878.
HNGJC60	4540	723380	1 - 404		15 - 418	
HNGJC66	4541	786924	1 - 339		15 - 353	
HNGJC76	4542	739500	1 - 162		15 - 176	AC005915.
HNGJD15	4543	660312	1 - 201		15 - 215	
HNGJD61	4544	774154	1 - 737		15 - 751	
HNGJD71	4545	760397	1 - 428		15 - 442	AB022522, AB022521, AJ012652, and AB012162.

HNGJD76	4546	670948	1 - 339	15 - 353	
HNGJE16	4547	661976	1 - 366	15 - 380	
HNGJE33	4548	795219	1 - 409	15 - 423	
HNGJE40	4549	960003	1 - 380	15 - 394	
HNGJE56	4550	669732	1 - 415	15 - 429	
HNGJF26	4551	666504	1 - 399	15 - 413	AL096853.
HNGJF65	4552	698487	1 - 575	15 - 589	AW293616, and AA661680.
HNGJF73	4553	683440	1 - 395	15 - 409	
HNGJF79	4554	775221	1 - 142	15 - 156	
HNGJG15	4555	660308	1 - 421	15 - 435	AL021528.
HNGJG37	4556	708703	1 - 376	15 - 390	
HNGJG72	4557	970797	1 - 387	15 - 401	
HNGJG89	4558	778294	1 - 240	15 - 254	
HNGJH09	4559	415566	1 - 292	15 - 306	
HNGJH11	4560	860350	1 - 435	15 - 449	
HNGJH35	4561	952237	1 - 337	15 - 351	AL045943, AL134524, AL042377, L26292, AF190465, AC007425, AC005520, AC002540, AL035420, U89387, AC006241, AC005911, AC005519, AL049557, AL031681, and AC005940.
HNGJH50	4562	666843	1 - 435	15 - 449	
HNGJH96	4563	953648	1 - 246	15 - 260	
HNGJI29	4564	690667	1 - 373	15 - 387	AC005058.
HNGJL35	4565	707328	1 - 375	15 - 389	
HNGJL42	4566	465160	1 - 405	15 - 419	
HNGJL54	4567	465159	1 - 369	15 - 383	
HNGJL71	4568	760393	1 - 412	15 - 426	AI124706, AA307598, T74524, AI609972, AI755214, AI754567, AA658918, AI754105, AW328331, AA527209, AA654038, AA535216, AA643770, AI380617, AW304699, AI612142, AA714110, AJ251576, AW274191, AI306232, AA704393, AI912401, AI583466, AI583252, AI733647, AI187148, AA533545, H07953, AA225890, AA747757, AA084609, AA297666, AA515138, AA829036, AW275432, H53284, AI049630, W60522, AW275412, AL118925, R92629, AI446336, AW300749, AA720774, AA904211, AI733662, AI244157, AA877992, AW083678, AA513551, AP000496, AF085946, AL050341, AL031985, AC006071, AC003685, Z93017, AC005184, AL132987, AC006277, AC006312, AC005412, U67813, Z97054, AC005484, AC005800, AC002544, Z98750, AC006237, AC004167, L13176, AC006254, AP001053, AC002115, I34294, AL021707, Z93930, U91326, Z98884, AL080243, AL035587, AC003957, AC004972, AL021546, AL023553, AC007276, AL049872, AC004805, AL031281, AC005049, AF038458, U80017, AL133243, Z99943, AC006441, AL121658, AC004638, AL022336, AF111169, Z99495, AC004084, AL139054, Z94056, AC004534, AL008583, AP000501, Z93016,

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HNGJI77	4569	772215	1 - 344	15 - 358	
HNGJI83	4570	781213	1 - 400	15 - 414	W26162, and AL022721.
HNGJI22	4571	597096	1 - 447	15 - 461	T64224.
HNGJI51	4572	725702	1 - 110	15 - 124	
HNGJK04	4573	615288	1 - 393	15 - 407	AC002365.
HNGJK06	4574	935548	1 - 267	15 - 281	
HNGJK12	4575	970686	1 - 213	15 - 227	AC004856.
HNGJK23	4576	707327	1 - 113	15 - 127	
HNGJK29	4577	663954	1 - 162	15 - 176	
HNGJK42	4578	713810	1 - 387	15 - 401	AW274296.
HNGJK50	4579	860196	1 - 384	15 - 398	
HNGJK54	4580	730713	1 - 225	15 - 239	
HNGJK58	4581	736080	1 - 387	15 - 401	AA491767, AA714011, AA644090, AA302690, AI243789, AI567676, AW236288, AI270476,

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			1 - 366	15 - 380	AL035106.
HNGJK71	4582	739323			
HNGJK77	4583	732737	1 - 530	15 - 544	AC006084, AC004820, and AF118125.

HNGJK89	4584	772218	1 - 336	15 - 350	Z98747.
HNGJL16	4585	661977	1 - 363	15 - 377	AI908137, AA644021, AA552280, AA320136, AP000502, AC006026, and AF134726.
HNGJL26	4586	681819	1 - 355	15 - 369	
HNGJL27	4587	725295	1 - 563	15 - 577	AA132777, AA809070, AI799864, AW076105, W22288, AI586953, AW192068, AA470553, AI288805, AA470607, and AA470506.
HNGJL60	4588	462981	1 - 427	15 - 441	AC007436.
HNGJL73	4589	783518	1 - 333	15 - 347	
HNGJL76	4590	793537	1 - 596	15 - 610	T59857, AI057232, AA077670, AI056766, AA076992, AI683105, AA633727, AW439721, AA076966, AA077800, AI057266, AA491063, AA854897, AA703747, AA491139, AI125775, AA279111, AI580834, AA490952, AA430496, AA450019, AI038182, AA156779, H29782, AC004916, AC004987, AF109718, AI133216, and AC006328.
HNGJM20	4591	964800	1 - 439	15 - 453	AC004672.
HNGJM35	4592	707324	1 - 122	15 - 136	AA679195, and AB002375.
HNGJM82	4593	967328	1 - 848	15 - 862	AA776881, AI961747, T70076, AI631548, AI198396, AI560937, C04802, AA650160, AI003674, AP000523, AC006453, AL049911, AC002038, AC002307, AP000544, and AP000543.
HNGJO10	4594	964678	1 - 395	15 - 409	
HNGJO35	4595	707329	1 - 390	15 - 404	
HNGJO45	4596	717069	1 - 394	15 - 408	
HNGJO73	4597	668997	1 - 348	15 - 362	AW151247, AA360082, AA610353, AA666295, F17549, R17793, AA862218, H11470, AW082006, AA910680, AW387775, AW387778, AA490951, AA588001, AA370455, T47970, AI791659, AA610588, AW387786, AL041749, AI133355, AA177130, AA062982, AA345064, R23873, AI031120, AC004787, AL008582, AP000331, AP000172, AP000057, AP000125, AB023050, Z97832, Z95329, U91326, AC002544, AL096763, AC007406, AL035458, AP000030, AC004228, AC004929, AP000251, AP000133, AP000211, AF020802, AJ229041, AI133448, Z83844, AC005544, AB003151, D89870, AC004152, AP000689, AB020868, AC020663, U52112, AP000512, AP000687, AC006211, AF139813, AI117337, AC004854, Z75887, AC005829, AF003529, AC009247, AL049869, L78810, AC004596, AF111169, AI035659, AC007536, AI050348, AC004797, AC006064, Z94865, AP000151, AC010436, U95742, AP000009, AC007216, AC006121, AC004967, Z98884, AC007225, AC004973, AC005823, AP000302, AP000114, AP000046, AC007276, AL031846, Z93241, AC007676, AL031670, AC009069, AI035684, AC004777, AC006468, AL031311, AI080243, Y07848, AC006130, AC000026, AC002059, AL139054, AC005695, AF205588, AC008372, AF196779, U63721, D87675, AC005071, AC005291, AC005874, AF134471, AL034561, AL034561, AL050307, AC002115, AC002302, Z86090, AR004690, AC005377, AC005899, J05096, U80459, AL049737, AP000694, AL031291, Z94055, AC004099, AC003682, AC005011, AL133445, AI109801, AL022323, AC003025, AP000702, AP000703, AC004160, AC005231, AC006312, AP001046, AP000692,

HNGJP03	4598	860363	1 - 419	15 - 433	AL133163, AF118808, AC005696, AC002347, AP001054, AC007160, AC005245, AC007024, AL022313, AP000511, AL031255, AC007436, AC005070, AL021393, U91321, M19364, AL133353, AL121652, AC004703, AL020997, AC006600, AP000553, AL031984, AC003982, and AC003102.
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HNGJP10	4599	964668	1 - 662	15 - 676	AC006571.
HNGJP80	4600	766278	1 - 432	15 - 446	
HNGJQ14	4601	881542	1 - 356	15 - 370	
HNGJQ23	4602	789764	1 - 476	15 - 490	
HNGJQ25	4603	924652	1 - 488	15 - 502	
HNGJQ35	4604	707326	1 - 376	15 - 390	
HNGJR01	4605	916555	1 - 542	15 - 556	AA342681, AA581914, AA775049, T48872, R26134, AT754955, AA441788, AA551798, AI360514, AA077776, AI446474, AA649642, R92640, AA662974, AA663306, AI445815, AI049996, AW268190, AW265654, AI978792, AL037910, AA483655, AA649553, AA558298, AW021917, AI597832, AI284108, AA780929, AA128592, AA577732, AI345695, AI114752, AI862716, AI865213, AA809189, AA437402, AI284640, AA482896, AA121919, F29989, AA487542, AA167741, T94094, H58472, AA720732, AW188976, R83838, F23255, AA161181, H64777, AW339622, AI014378, AL036854, AW088058, AA747472, T40612, R32200, AA614010, C14692, F17700, AL120245, AA296859, AI865988, AA527730, AW268277, AI885572, H84359, AI241705, AW337454, AW271904, AW189068, AW440633, AI524540, AA501614, W01999, AA516047, T40617, T52478, AA584489, AI079129, AA679872, AI453233, AA595625, AA747375, AA904275, AA515350, AA557879, T47739, AI160117, AA593471, R82388, T06828,

AW082744, AJ889923, AA311071, AT768952, AA968509, M78007, AL135405, AA846981, AA448838, AA013436, AA603323, AA579278, H57846, T40077, AI821044, AI859834, AI538812, AI888405, AA862230, AI370475, AA664604, AI679713, AA603232, AA533408, AI952900, AA384039, H62778, AA297968, AW407919, AW079809, N45421, AI291317, D78979, AW021583, AI568683, AA745582, AI625244, AA501784, T71936, AA225585, AA551386, AA326410, AA298386, AI708005, AL120976, AA342189, AI251002, AA016286, AI053786, AA857296, N23097, AA483583, AL045709, AI634323, AW069450, AW238016, AI148927, AI445592, AI251111, AA528500, T53607, D44743, T32050, AA122223, AA744001, AA745524, AI908093, AA467988, AA714956, AL135643, AA365586, AA468051, R19647, AI471691, AW167154, T54898, AI053672, N64587, AA076427, AI679413, T47588, AI358089, H29019, W01998, AI754013, AC009501, Z85996, AP000503, Z95331, Z82182, AC004675, AL031596, AF088219, AC004231, AF134726, AC004982, AC003664, AL031120, AC007033, Z99572, Z99570, AC007262, AC005071, AC003101, Y11312, AL049712, AC004099, AL021977, AC006277, AC006479, AL035413, AF001549, AL021397, AL034429, AF003529, AC004649, AL031775, AL022327, AC010077, AL049745, Z96568, AC005531, AC003992, AC005632, AP000347, AC005856, AC008249, AF051976, Z82180, AL109985, AC005037, Z97630, AP000350, AC005841, AL035089, AC005057, AP000306, AP000047, AC002036, AC005701, AC005488, AC006057, M37551, AC004042, AC005212, AP000193, Z93241, AP000050, AC007254, M87914, AL132992, AL121653, U73168, U91319, AC005252, S42655, AP000117, AC005180, M19482, M27132, AC005381, AC004762, AC004024, AC005753, AP000115, M87919, AC004000, AC005940, AF084198, AL031845, U07562, AF003626, Z99755, AC002347, AL022162, AC005042, AC007308, AL122126, AC002468, AL049653, AC004892, AC006014, AC016831, AC005944, AC007030, AC002070, AL121754, L44140, L81690, AC004263, AC004590, AF052684, AF039401, AC005101, AC004839, AC005366, AL031075, AL049699, AL008729, AC005529, AC004805, AC006257, AP000966, AC006372, Z95114, AC005520, U96629, AC007312, AL049869, AP000556, AL079339, AC004067, AC007161, AC004221, AF126483, AC004002, AL096803, AC005243, AC005207, AP000049, AL020993, AC002316, AB007955, AL022317, AC005160, AL049830, AL049569, AC005694, L17418, AP000311, AC002115, AL031003, AL109802, AC006441, M87918, AP000260, AL034555, AP000099, AP000216, AP000884, AP000036, AC004692, AL031432, AB019534, AL117352, AF048728, U73643, AL031393, AC006132, Z99290, AL020990, AC005064, AL035701, AC007237, Z84484, AL035455, AL031655, AC004816, AC007637, AC008085, AC005297, AC005358, AC005740, AL135744, AC002365, AC005291, Y18000, D87675, AC006388, AL133304, AC007377, AL121657, AP000356, AC005162, AL096678, AL096817, AC004150, AC004682, AC007182, Z99716, AL139054, AP000346, AB0009813, AL133233, AC005666, AC006017, AC004554, AC009464, I34294, AC005565, AC007011, AC005339, AP000076, AC004902, AC004519, AL109984, AC006443, AL133382, AL022329, L78810, AC004596, AL031985, Z49866,					
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HNGJS24	4606	677235	1 - 319	15 - 333		
HNGJS45	4607	720746	1 - 121	15 - 135		AL022147.
HNGJS53	4608	728258	1 - 432	15 - 446		
HNGJS64	4609	746606	1 - 409	15 - 423		
HNGJS91	4610	920755	1 - 415	15 - 429		
HNGJT36	4611	888329	1 - 432	15 - 446		AC002483.
HNGJT72	4612	775502	1 - 371	15 - 385		
HNGJT93	4613	792338	1 - 332	15 - 346		
HNGJT95	4614	953418	1 - 345	15 - 359		
HNGJU36	4615	708122	1 - 638	15 - 652		AL133216, and AC004883.
HNGJU50	4616	724416	1 - 399	15 - 413		
HNGJU51	4617	725703	1 - 287	15 - 301		
HNGJU78	4618	860347	1 - 420	15 - 434		AI345721, AI640679, AA547976, AI187148, AI281622, H90688, AI369076, AI653776, AW407007, AA230155, AA515742, AW157173, AA523719, AW302078, AA584756, AA984920, T52745, AA362440, AA492264, AL134216, AA515451, AL043745, AA632593, AW328331, AA584527, AW328330, AA354507, AI096738, AA572813, TI2424, N69313, H94979, AA630947, AW242279, AI380617, R98835, R94909, AI570019, AA112864, AW162314, AA835346, N87333, AI884404, AW162332, AA564925, AA196287, Z98884, AC009363, AC007056, AC005225, AC004035, AC005362, AL023553, AC006241, AL035411, AC005412, AF044083, Z97054, AC005667, Z97632, AC005695, AC005237, AC007450, AC004485, AC004106, AC004098, AC005841, AP000116, AP000049, AP000311, X96421, U89335, AC003666, AC000052, AF102137, AL035462, U95739, AC004922, AC004685, AC004638, AC003070, Z85986, AP000350, AC005325, AC006581, AL078621, Z92542, AF111168, AL008719, AC004757, AB020868, AC005962, U91318, AC006274, AP000255, AP000213, AP000135, Z86090, AP000031, AL078638, AL133445, AC000393, AC005553, AP000210, AP000132, Z84469, AC004859, AP000248, AC005971, AF143866, AB007914, AP000300, AC004834, AC002036, AP000045, AC005091, AC005215, AC003684, AL049569, AC002429, AC004262, Z83819, AL035458, AL135745, AC007114, AL035460, AC005666, AC009044, AC007540, AC006450, AC006040, AC006088, AL031432, AL022394, Z94056, AC003030, AC007536, AC005846, AC006576, AC004941, AL022313, Z95331, AC001231, AC005993, AC020663, AL035405, AC006487, AF064105, AF165926, AL118503, AL117330, AC005328, AL023801, AC005793, U62631, Z68756, AC004643, AC005783, AL022302, AC004802, Z98749, Z98051, AC003002,

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HNGJV04	4619	615283	1 - 210	15 - 224	
HNGJV10	4620	964672	1 - 402	15 - 416	
HNGJV91	4621	790213	1 - 235	15 - 249	
HNGKA62	4622	876593	1 - 508	15 - 522	
HNGKB11	4623	966119	1 - 516	15 - 530	AA121830, AW402301, H38504, AA227281, and AL050037.
HNGKB25	4624	944424	1 - 706	15 - 720	H53110, AW419161, AA551509, AA878495, AA345333, T07346, T51743, AA525407, H81732, AA658235, AA441788, AA773289, AA134367, AA428414, AA583579, AA602557, AI358343, AA335519, AI366902, AA679493, AW062724, AA583568, AA723017, AI952786, AI707788, F35113, AA301813, R44592, AI446464, H68343, AI753037, AL042213, AA508509, AA171941, AI037897, AW327868, AA932099, T48872, AI439360, AI246796, AA525331, AA557686, AA658018, AL045455, AI335963, AA653964, F00949, AI016704, AL109798, AP000692, AL021579, U02050, AL121603, AC005288, L78833, AC002425, AC004741, AL035584, AC005088, U27336, U27334, AP000555, AC008498, Z98941, AF131211, AC004682, AC007536, AL049569, AC004736, AC006463, AF030453, AB016897, AL050312, AC001228, AC004856, AF196971, AP000315, AP000885, AC005102, AL133448, AP000359, AL121653, AL034379, AC005786, AL133245, AC004158, AP000501, AP000115, Z97056, AP000045, AL035086, AC002301, AL135879, AL121790, AP000089, AP000165, AC006449, AL022316, AC005215, AL135960, AJ131016, AP000193, AC004792, AC004985, D16583, AL031846, AL109984, AC004030, AC008040, Z99755, AL022238, AF024533, AC004531, AC008163, AC006432, AP000050, AL031733, Z82185, AC006455, Z85986, AP000117, AP000310, AF050154, AC005972, Z68287, AC020663, AL031905, D87675, AC004383, AC005695, AF190465, AP000118, AF124730, AL009031, AL049832, AC005911, AC002326, AC004129, AL035659, AC007686, AC006561, AL008629, AC005306, AC007199, U75931, AC016026, AL031053, U95742, AC004814, AC002310, AL022574, AL117258, AC004168, AC005375, AL121578, AC002091, AC006160, U66059, AC004678, AL008718, AP000553, AL133163, AC005225, AL079340, AC003695, AC002527, AL022721, AC005837, AC007021, AL035681, AC007157,

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HNGKB78	4625	971110	1 - 760	15 - 774	
HNGKB93	4626	791760	1 - 291	15 - 305	
HNGKD55	4627	860343	1 - 588	15 - 602	
HNGKD94	4628	793414	1 - 553	15 - 567	<p>AW270385, AI355246, F35684, AA714011, AI355103, F23338, AA484892, AA282951, AI190648, AA831408, AA503142, AI185394, AA664126, T47138, AI310992, AI300818, AA158549, AI370170, AA857812, AW272815, F34506, AA769141, AA846923, AA558404, AI761677, AW104163, H79586, AW069227, R67701, AI310464, M85711, AI625604, AA568314, AI041375, AW419389, AI362442, AI537995, AI536858, AI130709, AA534208, AI869786, T03412, H29914, AI572680, AW151018, AA654482, AA354695, AA669961, AW237905, AA018231, AW188742, AW272640, AA182731, AA809186, AW023111, AA568204, AA570740, AA582746, AA483606, AA523695, AI634187, AA314891, AA347382, AW008169, R83068, H67064, AA573000, H13120, Z30294, AI431513, AI457313, AA668587, R93919, R79255, AI278972, AW002831, AA491767, AA458534, AI288033, T94394, AI189682, T50676, AI285493, AA878407, AA856841, T05617, AA600202, AW302017, AA553594, AI620992, AW162750, AW192402, AC004883, AC005971, AP000117, AC005280, Z95152, Z98304, Z94056, AC004973, AC006344, Z86090, AC004033, AI109627, AC005551, AC000381, Z81357, AI035588, AI096773, AC005722, D88268, AF134726, I34294, AC004893, AC005237, AF207550, AC004878, U73330, U82828, AC006388, AI035659, AC005821, AF051976, AC007546, AI022326, AC003070, AC005089, AC004150, AL049759, AP000696, AC007193, AC011311, AF002223, AL021393, AL096701, AC004963, AC007283, AL021808, AC005378, AL035562, Z92546, Z98750, AC005216, AC004983, AL031255, AE000662, AB015355, Z93241, AC007567, AB016897, AC002400, AP000049, AP000116, AC004522, AC002425, AL049776, AP000500, U62293, AF047825, AP000311, Z85996, M94081, AC002551, AC008126, AC005057, AC006536, AF217403, AP000337, AP000216, AC004881, AC004771, AL031597, AL080245, AC005183, AL049748, AC006125, AL035695, AP000503, AL049834, AF129756, AC006057, AC004417, Z83820, AF001549, AC005317, AP001063, AL078611, AC004253, AL035405, AC006071, AF001550, AC007308, AC006441, AC006116, AC005206, AC005391, AC002470, AB012723, AC004943, AL031228, AL080243, AC004955, U63721, AL117340, AL031670, AP000555, AC005667, AC007030, AP000010, AL031659, Z98200, AL121852, AL117355, AL031005, AL121769, AC004974, AP000359, AP000353, AD000684, AC002128, AC005071, Z98752, AL035420, AL034417, U52112, AF075098, AC006360, AC000393, AF037338, AC006960, AF097738, AP000103, AL022327, AC005779, Z97630, AL050321, AL033517, AL121652, AC005793, AC004929, AC006480, AC005225, AP000502, AC002351, AL024509, AL031295, AC004831, AC006241, AL022311, AL117337, Z94801, AP000565, AC006061, AC005686,</p>

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HNGKE05	4629	860320	1 - 529	15 - 543		AL138265, AJ801482, AI963720, AI370074, AI370094, AI284640, HT1429, AW193265, AA610491, AW088718, AL119691, AI249997, AI708009, AW327868, AI431303, AA483223, AL046409, AI312309, AL041690, AA101689, AW021583, AA469451, AI355206, AA569471, AI34443, AW303196, AA652057, AI345654, AL044858, AI307608, N75702, AW249224, AW301350, AW274349, AA720702, AL042420, AI270117, AI305766, AA665330, AL138455, AA192747, AW304584, AA877817, AA490183, AW439558, AW265170, F36273, AL046205, AL079645, AA587256, AI305547, AA649642, AI890928, AW265393, AI368256, AI254615, AI890570, AI133164, AW020340, AI956131, AI888518, AL047427, AW103758, AI110770, AA525416, AI754658, AW088846, AA847499, AA493471, AA551503, AI350211, R24205, AL037683, AL048925, AI613280, AW276827, AI246119, AW408717, AA178953, AA192740, AA747105, AL044940, AI357288, AI568678, AW023672, AW679124, AW276817, AI061334, AA640900, AI962050, AA394271, AI919265, AA526787, AI814735, AW073470, AI133102, AW410400, AA491814, AL042753, AA468131, AA521323, AA581903, AA468022, AA587604, AI434695, AI281881, AI570261, AI064864, AI457397, AW004911, AI345681, AI345675, AI345518, AA834792, AA503475, AI313166, AI561060, AI679782, AA214342, AW438643, AA623002, AI890348, AI368745, AI732764, AW029038, AI149478, AA631507, AI589230, AI289067, AA653618, AW340844, AW265385, AA521399, AI341664, AW276435, AI345157, AA470969, AL038705, AW193432, AA810318, AI224093, AL045053, AA758934, AA486559, AI473943, AI801600, AI610159, AA559290, AI254316, AI344844, AA584581, AI669453, AI688846, AA669840, AI801591, AW261871, AA908687, AI619997, AW238278, AA610271, AI375710, AL039958, AW419262, AL037554, AI471481, AW070892, AI865905, AA601492, AA846935, AA503154, AL120269, AI085719, AW162049, W31373, AI928790, AI929531, AA225230, AW248803, AI053672, AA309841, AI307201, AI076616, AA661948, AW270270, AA601371, AL040130, AW269488, AA164251, AA601355, AA482806, AA828712, R71981, AA583955, AA904275, AW148792, N48230, AL120502, AA806796, AL119984, AI471572, AA205915, AL046457, AL042856, AW072587, AW072923, AI744995, AA665021, AI859742, AL138421, AI679132, AW088616, AA542991, AI580652, AW088317, AI053790, AA680243,

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HNGKE07	4630	952221	1 - 348	15 - 362	AA633727, AA703747, AI057232, AL041975, AA077343, AL042361, AA703958, AA317624, AI880143, AA083243, R96964, W03215, H80600, AA491139, AA491063, AI214163, AA076680, AA084739, AI880175, AA078180, AA077670, AA211922, AL040165, H00289, AA077800, AW264118, T59857, AC004916, AC004987, AL133216, AC006328, and AF109718.
HNGKE52	4631	812714	1 - 575	15 - 589	AP000522.
HNGKE73	4632	860312	1 - 664	15 - 678	

HNGKB89	4633	786257	1 - 522	15 - 536	AL139228.
HNGKE91	4634	789685	1 - 535	15 - 549	AC004263.
HNGKE93	4635	791623	1 - 462	15 - 476	
HNGKF01	4636	915247	1 - 359	15 - 373	D80038, C14389, D51799, D59467, D80227, D80195, D80164, D59275, D59502, AA305578, D80269, D58283, D51423, D59610, C14331, D59859, D80022, D80166, C15076, D59619, D80210, D80391, D80240, D80253, D80043, D59787, D81030, D80193, D80378, D80212, D50979, D80196, D80188, D80219, D59927, D57483, D80241, D80366, D50995, AA305409, D59889, D51022, D80024, D80045, AW177440, C14429, AW178893, AA514188, D51060, D81026, T03269, D80248, AW179328, C14014, C75259, AW378532, D80522, D80251, AW360811, D80133, D80134, AA514186, AW178762, AW177501, AW177511, D58253, D51250, AW369651, AW178775, AW375405, C05695, D80132, AW352158, D80268, AW377671, F13647, D59695, D52291, D80302, AW352117, AW366296, AW176467, AW360844, AW360817, AW375406, AW378534, AW179332, A910186, AW377672, AW19023, AW178905, C06015, D80168, D80439, D80247, C14227, AW352170, AW352171, AW377676, AW177731, AW178907, AW178906, D81111, AW179019, AW179024, C14298, D59373, D80064, AW177505, AW360841, AW179020, A905856, C14407, AW178909, AW177456, AW179329, AW178980, D51103, AW177733, AW378528, AW178908, AW178754, AW179018, AW352174, T11417, AW367967, AW179004, D80157, AW179012, AW178914, Z21582, AW378525, AW378540, D51759, AW177722, AW177728, D51097, AW179009, AW178774, AW178911, AW378543, D58246, AW352163, AW360834, D59503, C14077, AW178983, AA285331, T48593, AW178781, AW352120, D58101, D59627, D80258, D59653, A1557751, D45260, AW177723, AW178986, A1535850, AW378533, C14975, AW367950, AA809122, AW177508, D80014, H67854, C03092, D45273, H67866, A1525923, D51213, AW177497, T03116, D59317, D60214, D80228, A1525917, C14344, C14973, AW177734, A1525920, A1535686, D51221, T03048, D59474, D59551, D60010, AA514184, A1525227, A1557774, C14957, C14046, A1525242, A1525235, A1525925, A1525912, A1525215, A1525237, AW378542, AW378539, A1525928, C16955, Z33452, C05763, T02974, T02868, A1525222, AW360855, A1535961, D31458, A84916, A1532110, A62300, A62298, AR018138, AF058696, AR008278, AB028859, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, I82448, D88547, Y12724, A82595, X82626, AR060385, A94995, AB002449, AR025207, AR016808, AR008443, I50126, I50132, I50128, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AB012117, AR066482, AR066490, X68127, Y09669, A43192, A43190, AR038669, I18367, AR066487, I14842, A30438, A85396, A44171, AR054175, U87250, A85477, I19525, A86792, D50010, Y17187, D88507, X93549, A63261, AR008277, AR008281, AR008408, AR062872, A70867, AR016691, AR016690, U46128, D13509, I79511, A64136, A68321, AR060133, AFI35125, U79457, AFI23263, AR032065, U87247, X93535, and AR008382.
HNGKF11	4637	965047	1 - 473	15 - 487	D80045, T18597, A1536138, A1535660, A1541365, A1535639, R29657, AA585439, AA585098,

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HNGKG43	4639	958487	1 - 782	15 - 796	
HNGKG61	4640	860317	1 - 408	15 - 422	
HNGKH04	4641	926987	1 - 421	15 - 435	AC002041, AC006352, AJ239321, AC002038, AC006359, and AC004057.
HNGKI30	4642	860205	1 - 314	15 - 328	T05706, A61271, AF134707, and A61272.
HNGKI36	4643	784854	1 - 598	15 - 612	AC005939, and AC007488.



HNGKI90	4644	787378	1 - 224	15 - 238	
HNGKI93	4645	791671	1 - 502	15 - 516	AC025217.
HNGKJ01	4646	915231	1 - 682	15 - 696	
HNGKJ38	4647	806053	1 - 619	15 - 633	
HNGKJ51	4648	883072	1 - 690	15 - 704	
HNGKK35	4649	806051	1 - 281	15 - 295	AC005940.
HNGKO11	4650	966093	1 - 301	15 - 315	
HNGKP29	4651	860305	1 - 285	15 - 299	
HNGKS06	4652	974356	1 - 387	15 - 401	
HNGKT08	4653	958311	1 - 496	15 - 510	
HNGKT69	4654	860302	1 - 675	15 - 689	
HNGKU04	4655	926948	1 - 301	15 - 315	
HNGKV01	4656	915218	1 - 266	15 - 280	
HNGLA54	4657	860206	1 - 146	15 - 160	
HNGLC01	4658	915288	1 - 565	15 - 579	AA773098, AI800343, AI743899, R84528, L35485, AF011889, and Z84466.
HNGLC46	4659	775300	1 - 341	15 - 355	AL096867, and AB020858.
HNGLD34	4660	830026	1 - 299	15 - 313	AI351206.
HNGLE25	4661	860260	1 - 725	15 - 739	
HNGLE52	4662	835972	1 - 727	15 - 741	AL049691.
HNGLE74	4663	860263	1 - 729	15 - 743	
HNGLF03	4664	922969	1 - 610	15 - 624	
HNGLF08	4665	938312	1 - 1309	15 - 1323	AA149651, AI417864, and AA151561.
HNGLG06	4666	839088	1 - 676	15 - 690	AA654505.
HNGLH72	4667	785570	1 - 704	15 - 718	
HNGLH82	4668	954140	1 - 726	15 - 740	
HNGLJ04	4669	954943	1 - 608	15 - 622	AL132799.
HNGLJ20	4670	806045	1 - 535	15 - 549	AA297666, AI859438, AI733856, AA526099, AL046519, AA503298, AA643770, AA721645, AW020992, AA832175, AI244157, AI755214, AA640430, AI754567, AW302659, AW302705, AI079734, AA640410, AI380617, AI754105, AI349817, AI984168, AA176978, AI654247, AI469599, AA468505, AW268757, AI679045, AA167792, AI251203, AW190484, AW300650, AA904211, AW151870, AA584620, AA053463, AA857486, AW268954, AI792529, AA652834, AI610737, AW001268, AW004884, AW304805, AI251284, AI345827, AI250552, AW085718, AA135761, AI371208, AA299589, AI565126, AA405726, AW270771, AI251034, AW274350, R62710, AI281561, AA856961, AW338179, AA548610, AA833896, AI537995, AA621381, AI284543, AI061197, AA916171, AA833875, AL135377, T03583, AW303098, AA955031, AI130709, AA492105, AI087133, AI289447, AA133013, AA630854, AA223174, AI356440,

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HNGLK13	4671	785685	1 - 306	15 - 320	
HNGLK65	4672	795280	1 - 508	15 - 522	AL034431, and AL050317.
HNGLK90	4673	795225	1 - 658	15 - 672	
HNGLL03	4674	923028	1 - 408	15 - 422	
HNGLL11	4675	966105	1 - 397	15 - 411	
HNGLL24	4676	859922	1 - 635	15 - 649	T18597, R29657, AA585098, AA585325, R45895, C15406, D59751, C15069, D53161, AA585101,

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HNGLL31	4677	789193	1 - 402	15 - 416	A1583390, AA128511, AA502207, AA709362, M87890, S42652, AL022313, M87914, S42653, AC003101, AC004447, AL080243, AL031848, AL033527, AC005529, AC005288, AC004834, AC005776, Z99916, AC005632, AP000704, AC002352, Z85987, AC003010, AC007386, AF111167, AC004686, AC004983, AC005694, AC000379, AC006480, AC005899, AC005527, AP000501, AC011331, U95739, AC007227, AL022315, AC004953, AL080317, AC002312, AC004816, AC005837, AC007565, AC005736, AC005041, AC002565, AC005081, AF0513356
HNGLL41	4678	845274	1 - 774	15 - 788	

HNGLL67	4679	860253	1 - 405	15 - 419	AC004707, AC004531, Z84476, AC005773, AC000388, AC005747, AC006285, AC004662, AF001549, AL022316, AC005513, AC003110, AL109627, U63721, AC007276, AL109865, AL049553, AC002407, Z83844, AL023799, AC004653, AF111168, and AL049758.
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	4680	789743	1 - 407	15 - 421	
	4681	919222	1 - 126	15 - 140	
HNGLM06	4682	963504	1 - 562	15 - 576	D59859, D51799, C15076, D59502, D80195, C14389, D80164, D80038, D59467, D59275, D80227, D58283, D80022, D80166, D80193, D59619, C14331, D80210, D80391, D80240, D81030, D59787, D51423, D80253, D80043, D80269, D80212, D80196, D80188, D50979, and AP000346.
HNGLLO10					

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HNGLO70	4683	779223	1 - 431	15 - 445	
HNGLO80	4684	775504	1 - 728	15 - 742	
HNGLO86	4685	780484	1 - 634	15 - 648	T84380.
HNGLO92	4686	924891	1 - 653	15 - 667	Z59015.
HNGLR39	4687	835586	1 - 757	15 - 771	
HNGLR91	4688	789707	1 - 587	15 - 601	AC002103, and AC000401.
HNGLS86	4689	784860	1 - 609	15 - 623	

HNGLT67	4690	958777	1 - 634	15 - 648	AC004818.
HNGLX63	4691	934371	1 - 591	15 - 605	H67866, AA504865, AI699049, T11828, AI004740, AA316036, AA853861, AA721998, AA714073, AA831801, AA626595, T03928, AW089950, AA832016, AA297496, R16258, AA662614, AW019964, N63755, AA256107, R97626, AI955465, AA525407, AA827383, AW057717, AA628740, AD000833, AC004087, Z82244, AL031431, AL139054, AL049570, Z93017, AC007221, AP000355, AL078581, AL031680, AP000248, AC006545, AL049869, AC006546, Z85987, AC005191, AL021154, AC006006, AC004494, AC004067, AC004224, AC007030, AC020663, Z99716, AC006312, AC005940, AC005914, AC007536, AL031311, AL109627, AP000696, Z69042, M13792, AC007766, AC005291, AL031279, AC006211, AC012384, AC008009, AL031003, Z97056, AL133448, AL008583, AC002059, AL096702, AC006376, AC004263, AC005316, AF109907, AC004382, AC005546, AC005071, AL023807, Z96074, Z93020, AC006372, AC007021, AL109956, AC005901, AC005696, AL031728, AC002375, AL034549, AC004242, D88270, AL049569, AC002430, AC004131, Z84487, AL035659, AF196969, Z97198, AC007384, AC005156, AC007376, AC005913, AC006441, AC008015, AC005519, AC004832, AL022336, AC005792, AL033527, AC002543, Z68331, AC012085, U95742, AL022312, AP000023, AC006057, U66061, AC002350, AC006430, AF001548, U73330, AP000008, AC005317, U82668, AC008055, AC006544, Z98051, AP000466, AC007686, AC003108, AP000704, AC006450, AC000025, AC005839, AC011331, AC004585, AL022313, Z83826, AC004671, AF001550, AC004125, AL035072, Z98941, AC004920, AL022162, AC005154, AC005247, AC005220, AC004158, AL035420, AC006965, AC005509, AL033377, AP000505, AC006042, AC007429, AC006146, AL133163, AC005622, AC004253, AL031657, AC004099, AC005670, Z82217, AL137447, I34294, AC005632, AC006530, AC005730, AC005005, Z82215, AC005874, AF134471, Z83840, AC005081, and AC005971.
HNGLMA01	4692	915306	1 - 410	15 - 424	AW069159, AA525760, AW020321, D80522, AA468131, AA468022, AI866160, AA714110, N55508, AA666332, AI828733, W03286, AW327868, D80043, AW277171, AL038799, D80188, AW401408, D80251, AL120959, AI561097, D80366, D80253, AI470431, AW089101, AA846952, AA449594, AA092078, AA668807, AW168420, AA502858, AI912638, AA536016, AI751216, AI470437, AA303007, AI559251, AW380254, AW055226, AL119691, AA083379, AA326372, AW189113, AA487567, AW103509, N40815, AW103758, D80247, T11417, AA188670, D58283, AW117951, AI124610, AI817976, AA220943, AI674174, D50979, N73855, AA809122, AA502860, D59474, AA446544, AI472222, C16955, D80014, AA572773, AA203135, AA181823, R95139, AI932599, AA312559, AL038072, AA428545, AW148792, AA828781, AA828758, AA826134, AA828771, AA828802, F01109, AI093375, AA297098, AA853836, F32808, W05405, AA503258, AA515753, AA302973, AA984258, AL044904, AI254913, AA598551, AI357924, AW275425, H67854, AA706480, AA657459, AA828227, AL135743, T08298, AA953609, AI969436, AA587517, AI809745, AA655010, AL038705, AW271235, AA167284, AI025864,
HNGLMA49	4693	860244	1 - 324	15 - 338	

					AI560085, AI084348, D57483, AA584667, AI818737, FI3647, AI122618, D51799, C14389, AW043636, AI589461, AI589230, AA610373, A525926, AI027555, AA769402, AI792957, AI800168, AI436601, D80269, H67866, AA084721, AA745475, D80439, D58246, D81030, D59889, AC004695, AC006582, AC004998, AF200465, AC005519, AC002565, Z82901, AL096803, AL049697, AP000967, AC004126, AC006529, AL109827, U72787, AC006121, AC002350, AC004782, AL031286, AC004686, AL078463, Z95152, AC004662, AC005373, AL031775, AC004035, AC004864, AC005993, AC004525, AC005386, AC002303, AC007283, AC006120, AP000555, AC005104, AC007324, AC007100, AC008101, AL022397, AL135959, AC006006, AC009247, Z84469, AL034417, I56088, AC004019, Z97196, AL035695, AC004815, AC005288, AP000496, AC005230, AC005291, AF196972, AF207550, AL031009, Z69713, AF107045, AL021878, AC007993, AF053356, U78027, AF029750, AC003101, AL080243, AC006203, Z84476, AC007021, AL035246, AL035422, AC004865, AL035045, AP000048, AC003042, AL031447, AF030453, AP001067, AC004854, AL035555, AL117352, AL096791, AL049646, AC004526, AC003963, AL031777, AL035653, AC003029, Z98050, AC005479, AC007162, AC005180, AC007541, AC006571, AC006387, D83253, AP000298, AC005567, AL031680, AC004910, AC004220, AF064865, AL031667, AL031589, AF222684, AL121603, AD000833, AF141308, M90058, L35930, Z69917, AD000812, AC004755, AC005624, AC006275, AC002389, Z82190, AC006347, AL049549, AC002126, AC006468, AP000504, AP000113, AL034412, AC005166, AL008730, AL121820, AC004806, AL121756, Z97180, AC004056, AL022722, AL031668, AC004701, Z82198, AL079342, AC004594, AL034548, AC022517, AC004957, AP000350, AP000356, AC004816, AC005747, AL135747, AC006287, AF129756, AC009399, AL049835, AC006057, AC008125, AC005632, AC008072, AC004491, AC007370, AL121578, AC005512, AL109627, AC004895, AC005940, AC005829, AC007425, AC007435, AC005212, AL050325, AC004472, AC005158, AC005702, AF039907, and AC007226.
HNGMB26	4694	860166	1 - 305	15 - 319	
HNGMB33	4695	773752	1 - 529	15 - 543	
HNGMC51	4696	860243	1 - 669	15 - 683	R17449, and N87385.
HNGMD03	4697	923041	1 - 487	15 - 501	
HNGMD04	4698	927026	1 - 467	15 - 481	
HNGME93	4699	793483	1 - 528	15 - 542	
					AA480977, AA805135, AI356458, AI521314, AI797957, AI809163, AI082368, AI672772, AW268815, AA709444, AA625108, AW205440, AI193354, AA810765, AA837382, AA480976, AI743503, and AC008119.
HNGMF04	4700	860242	1 - 705	15 - 719	AA678970, AI054341, AI792623, AI054090, AI246061, F33126, AA278496, AL135605, AA135988, AI251944, AA135811, AW303098, AA714073, AA657910, AL037430, AA706202, AA515172, AI561210, AI434365, H72943, AI862790, W63553, AL133906, AL133902, AI302350, AA502813, AI636734, AI473549, AA378207, AA862029, AW026867, AA488419, AA527109, AA595504, AA297145, F08866, H24957, AA468975, AI049504, AW392414, AA024443,

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HNGMF11	4701	966114	1 - 147	15 - 161	
HNGMF46	4702	795236	1 - 443	15 - 457	D30932, R14811, F06803, Z44371, H29207, AC006359, AC002504, and AP001172.
HNGMF79	4703	772974	1 - 719	15 - 733	
HNGMF94	4704	966091	1 - 583	15 - 597	
HNGMG06	4705	934318	1 - 380	15 - 394	
HNGMG08	4706	958361	1 - 378	15 - 392	
HNGMH80	4707	775503	1 - 532	15 - 546	AA136477, AL049742, AC006511, AL031295, AL033377, AL031985, AL109963, Z95116, AC006530, AC004963, AL080243, AC004149, AC004106, and AC002565.
HNGMH93	4708	791725	1 - 415	15 - 429	AC004147.
HNGMJ04	4709	923011	1 - 270	15 - 284	
HNGMJ89	4710	786340	1 - 566	15 - 580	
HNGML07	4711	952224	1 - 654	15 - 668	AC002484.
HNGML53	4712	860240	1 - 654	15 - 668	
HNGMM51	4713	860201	1 - 488	15 - 502	AC007787.
HNGMM54	4714	933358	1 - 208	15 - 222	AW239562, and Z83841.



HNGMM87	4715	806036	1 - 468	15 - 482	
HNGMV73	4716	806000	1 - 510	15 - 524	AW021116, AF111168, AC007221, Z98742, AC007649, AC005288, L78833, AL021939, AL121825, AC005484, AC004033, U29895, AC005562, AC005500, U80017, AC006966, AC002455, AC004820, and AC007151.
HNGMW52	4717	860231	1 - 583	15 - 597	
HNGMW92	4718	790852	1 - 616	15 - 630	
HNGMX80	4719	786255	1 - 312	15 - 326	
HNGMX87	4720	835612	1 - 521	15 - 535	W05155, AA195301, AA424985, AA234376, AA372119, AA724177, H72335, AA316629, and AC004126.
HNGMX91	4721	789680	1 - 330	15 - 344	Z69714, and Z72521.
HNGNA23	4722	779201	1 - 122	15 - 136	AA582993.
HNGNB01	4723	915258	1 - 70	15 - 84	
HNGNE65	4724	963425	1 - 566	15 - 580	Z54072.
HNGNF40	4725	861967	1 - 676	15 - 690	AL022241.
HNGNG37	4726	847818	1 - 561	15 - 575	AA579385.
HNGNH03	4727	922831	1 - 566	15 - 580	T07903, AL521042, AA135761, AA172103, AA484892, AA668421, AL445699, AL036536, F02264, AA768179, F04185, AA676592, AA846014, AL370470, AA610644, AA613761, H88641, AL205181, AA741403, AL298079, AA558366, AA664126, AA229422, R99076, N78600, AA552724, AA740571, AA297006, AA491767, AW151761, AL702049, AL758424, AA297195, AL002952, M77908, U91326, AC002544, Z83840, Z82208, AL079295, AC005488, AL035086, AL035457, AL020997, AC007240, AL049830, AC007371, AC007227, AC007421, AC004583, AC005520, AC003043, AC005519, AC020663, AC006014, AC006468, AC007308, AC005722, AL049776, AC006387, AC007993, AC004983, AL031848, AC002470, AP000008, AC006241, AL031291, AC005940, AC009516, AC004975, Z83826, AC003688, AL049872, AC004134, AF111168, AC004131, AC006948, AC005377, AL050318, AC006064, AC003665, AC004832, AC002553, AC005274, AC016025, AL096701, AL080243, AC007934, AC005859, AC007537, U91323, AC005014, AL132712, AL022323, AC007226, AP000553, AC002996, AP000569, AC003029, AC005971, U95743, AC002367, AC006088, AC005049, AC000134, AC004883, AL031767, AC005409, AL050348, Z99716, AC005031, AB023050, AC004222, U62293, AL121655, AC002350, AC004185, AL031659, AC018633, AL022721, AC006160, AC005529, AC006077, AL008635, U80017, AC005914, AC007666, U85195, AC006211, AC005215, AC002059, AC006285, AC005057, AC004408, AC005822, AB014077, Z85986, AL132777, AC004854, AL121652, AC007566, Z98048, AC004526, AF196969, AC004895, AC005996, AC008044, AC003101, Z98742, AC006540, AC007774, AE000658, AC006138, AL008718, AL109758, AL078476, AC005620, AL121923, AC004531, AL049760, AC007546, AL022320, AL049694, AC005512, AF111169, AL031680, AL049540, AC005041, AL080160, AL020993, AL132718, AL034429, AP000114, AL096791, AC008372, AC003109, AC005479, AC004209,

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HNGNI04	4728	926985	1 - 480	15 - 494	AC000404.
HNGNI52	4729	781913	1 - 566	15 - 580	
HNGNI75	4730	860168	1 - 512	15 - 526	
HNGNI94	4731	893899	1 - 357	15 - 371	AC005356.
HNGNM24	4732	841902	1 - 300	15 - 314	AA302963, AA559290, AA491814, AT754955, AT264743, AT358343, AA747276, AA682912, AW088202, AT284640, AA747480, AA804379, AT610159, F36273, R91994, AT580652, AA074130, AT801600, AW193432, AA708678, F23279, AT079812, AT053672, AT653886, AW303876, AT569086, F28576, AT749284, AT499938, AW247819, AT902694, AT049722, AT679045, AA515051, AT431303, AT046409, F32894, AT121149, F18974, AT281881, AA649642, AW238016, AW080134, T08914, F25276, AW236342, AT119691, AT471481, AT929531, AA306732, AT041412, AT254615, AT287964, AT688846, AA664535, AA503258, T53607, AA947547, AW273218, AT301700, AW419262, AA934680, AA714453, T40338, AA664407, AW029038, AT047643, AW301350, AW303196, AW193265, AT299050, AW274349, AT334443, AT358571, AT375710, AT357551, AT709365, AA747472, AT286356, AT252554, AA229785, AT350211, AA745582, AA977743, H64777, AA350859, AA663306, AW440976, W07122, AT291124, AW024008, AA744220, AA469451, AT041706, AT801591, AT761471, AA492132, AT339850, AT473943, AT567674, AT962050, AA252763, AA603445, H64560, AT446464, AW166815, AT446601, AT110770, AA533725, AW276827, AT079910, AA515435, AT291268, AT270248, AT287528, AA654968, AW162049, AW250970, AW062724, AT133164, AT537030, AW131034, AW104748, AW088058, AW023389, AT648558, AA441788, AT303008, AT452599, AT043721, AT289067, AA614069, AT184226, AA810318, T56067, AT937850, AT251002, AT567391, AA100599, AA501614, AT298710, AA557879, AT625244, AA557686, AA826303, AT499134, AT041690, AA371567, AA526339, AA659083, AW021747, AT367975, AA488395, AA578918, AT919029, AW440633, AT133636, AW406659, AT887483, AA133986, AA713815, F28776, AT469624, T07451, AT610920, F19012, AW339568, AT246796, AA483068, AT135643, AT624698, AW276435, AT061296, AW261871, AT687962, AW173651, AA878140, AA525190, AT287651, AT017024, AA975645, AT904894, AT379719, AA491762, AT568678, AT434695, AA584489, AA702023, AT1143242, AT471543, AT205126, AT674873, AA085023, AA658093, AT281697, AA099892, AA152463, AA633936, AT423941, AT282832, AA225155, N25296, AT539563, AW440836, AA828704, AT890923, AW265385, AT469003, AT537955, AT917271

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HNGNO03	4733	860155	1 - 518	15 - 532	
HNGNR04	4734	926870	1 - 599	15 - 613	
HNGNS10	4735	963470	1 - 719	15 - 733	
HNGNS58	4736	788971	1 - 306	15 - 320	

HNGNS90	4737	787388	1 - 453	15 - 467	
HNGNV80	4738	908167	1 - 440	15 - 454	
HNGNW04	4739	860199	1 - 439	15 - 453	<p>AI904944, AI799421, AI475294, N22501, AA827383, AA126221, AI520925, AL039309, H43183, AA524846, AI871691, AI671077, AA774119, AI446623, AW270429, AW270351, F23268, H59856, AA084320, AW129188, R31264, R66407, AA218684, AL138252, AI805699, N71579, AA831801, H05066, AA171400, H24331, AW338376, AA230221, AI890297, AI819391, H23238, AA832016, AA577719, AA662431, R31260, T92237, H80621, AI683426, AI859744, F07564, AA228442, AA653291, AA368329, AW238495, AW019964, AI453160, AI564294, AA633197, AA632765, AI798242, AI471467, AA595656, AW265149, AA678616, H59611, AA610255, AL048002, AA831997, AA508882, H58393, H59651, AW439724, AA609826, AA558404, AL138065, AW151761, AA767257, AA579399, AI668566, N55515, AA434346, AW408767, AA628740, H15241, AA351808, AA569220, AW007424, AA664248, AI758858, F23221, AI889426, F04838, AI537800, AI860535, AI755057, AA454504, AA741301, T73016, AA664924, AA313078, H64715, AA578394, AW005974, W96522, AI821659, AI879951, AI246061, AI624379, AI927261, AA807704, AI469468, AA580572, AI275989, AI627917, AL079303, Z92542, AC005800, AC002312, AL133241, AC002433, AC008015, AL008638, AL031681, AC004549, AC006465, AC006959, AC002487, AC008928, AL049553, AC002375, AC007559, AC005608, AC006312, AL049694, AL121825, AC004738, Z74021, AF190465, AC004241, AC004616, AP000953, AC007130, AC005316, AC005317, AC002310, AC002301, AC005535, AC007226, AC007225, AC004653, AC006388, AL031588, AC006441, AL049569, AL049761, AP000952, AL121603, AC005082, AC007686, AC005740, AC004749, AC004231, AC012099, AL035603, AL023807, AC004650, AP000098, AC004448, U47654, AC005480, AC006344, AC004685, AC008080, Z95152, AC005067, U43572, A51133, A76958, M84472, AC000024, D87011, U95090, U34879, U82668, AC005696, AL022238, AC007401, AC005355, AC005365, AL049814, Z84719, Z97056, AL031729, AL080317, AL033504, AC006455, AC006039, AL135744, AL109628, AC002559, AC005017, Z98304, AL022237, AC006263, AC006966, AL023283, AC006208, AC004686, AL031587, AL133249, AC005189, AC002316, U62292, AC006254, AC004593, D86995, AL031728, AL132987, Z81369, Z68162, AC004185, AC006047, AC005775, AC003104, AP000694, AP000692, AC004797, AL035696, AC004953, AC009542, AC007263, AC009330, AC006065, AF109907, AC006130, AC004583, AL049565, AL109984, AC005378, AC004253, AC002094, AC006350, AF111170, AL035455, U96629, AL022165, AL022069, Z82244, AC004596, AC005773, AL031281, AL117694, AC004887, L44140, Z99716, AC004112, Z99943, AC004212, M22970, AF113129, AC003964, AC007308, AL021546, AC005206, AC005667, AL031659, AC003982, AC004706, AC007032, AL031848, AL023803, AC007684, AC005015, AL022329, AC002470, AC004882, U89387, AC007277, AD000812, AC005565, AC006162, AL035398, AC002126, AC012330, AC007708, AL034379, AC004999, Z95115, AC009288, AC005030, AC008132, AL117258, AC007325, AC005598, AC007981,</p>

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HNGNW85	4740	783747	1 - 447	15 - 461		Z83846.
HNGNX37	4741	806018	1 - 683	15 - 697		AC004549.
HNGNX65	4742	806042	1 - 706	15 - 720		AC007376.
HNGNZ01	4743	860158	1 - 507	15 - 521		AA853836, AL046225, AL045756, AL049569, AB023050, AP000511, AL031681, AC006946, AC004216, AC009501, AC002117, AL022165, AC006011, AC006057, AC005237, AC005179, AC004887, AC005102, AC005520, Z83846, AC004491, AP000350, U95090, AC004967, AC004617, AC005488, AC005037, AC006167, AC007193, AL033524, AC005082, AC003684, AC007021, AP000512, AC004832, AF064858, AF030453, AC005088, AP000065, AL049869, AL049843, and AC004408.
HNGNZ38	4744	790926	1 - 562	15 - 576		AC000025, AC005527, AC002991, AC005529, X89398, and AC007637.
HNGNZ91	4745	839887	1 - 508	15 - 522		AA923791.
HNGOA11	4746	966082	1 - 512	15 - 526		
HNGOA82	4747	779154	1 - 435	15 - 449		
HNGOB95	4748	791700	1 - 502	15 - 516		
HNGOD68	4749	790805	1 - 288	15 - 302		
HNGOE64	4750	860143	1 - 551	15 - 565		
HNGOF50	4751	796548	1 - 501	15 - 515		
HNGOF84	4752	782188	1 - 320	15 - 334		
HNGOF85	4753	783717	1 - 792	15 - 806		
HNGOG49	4754	971178	1 - 667	15 - 681		
HNGOH42	4755	958943	1 - 506	15 - 520		U73641.
HNGOI86	4756	806013	1 - 639	15 - 653		
HNGOJ13	4757	921433	1 - 325	15 - 339		
HNGOJ64	4758	860193	1 - 473	15 - 487		D80134, D80164, T03269, D59467, C15076, D81030, AW178893, D58283, D59859, D80022, C14331, D80166, D80195, D80193, D59927, D51423, D59619, D80210, D51799, D80391, D59275, D80240, D80253, D80043, D59787, D80227, D59502, AW352117, D80269, D80212, D80366, D80196, D80188, AW177440, D80219, AW179328, AA305409, D80045, D80038, D57483, C14429, D50979, D50995, D59889, AW378532, D80024, D59610, C14389, C14014, AW178775, D51060, AI905856, AW360811, AW375405, AW178762, AW352158, AW377671, D58253, AW177501, AW177511, D51022, D80132, AW179332, AW366296, AW360817,

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HNGOK59	4759	789689	1 - 244	15 - 258	AC006274.
HNGOK86	4760	784813	1 - 703	15 - 717	
HNGOL14	4761	860185	1 - 342	15 - 356	AW169469, A1648558, AA565844, AA491697, F32710, AA917906, N71340, N71390, AA584151, AA993165, H91358, A1653783, AA487995, AW193500, W24602, AW173443, A1925559, AA598617, AA487884, AL040948, W38468, AA479033, AA742775, R59868, T50568, AA721561, AA148656, T50436, AA361244, AA402102, AA922633, AA687542, AA229443, A1635819, AA424280, AI150131, AI914151, H80203, AA077646, T52997, AL048002, A1863176, AA649660, T86151, AL047480, T16065, A1557342, A1564215, AA348422, A1497727, W44607, N55012, R17793, AL138242, AL274006, AA470958, A1921692, A1744381, A1567831, A1445768, AA363150, AA586553, D25667, AA374525, A1889648, A1613487, A1336206, AA427747, AA679512, A1689135, AA010672, T61362, AA837739, AA493852, AA568314, AA491545, W79083, AA507990, A1912505, A1188963, AA078384, R30966, A1628482, AA984829, AW029626, A1888050, H73306, M77894, A1538433, R68503, AA632493, AA632484, AA384064, AA837796, A1885488, AA713534, AW236277, AA650348, AA845333, AA524504, H47461, A1754286, W45073, A1215784, H05449, AA526099, A1572680, R81455, AA632994, AP000558, AL035420, AC005183, AC009516, AC006582, AL079342, AC006031, AL079334, AC006487, Z93096, AC003025, AFI39813, AP000356, AC006536, AC004228, AC005158, AC000387, AC004622, AL096791, AL035462, AL049569, AC000066, Z99128, AP000855, AC000120, AJ010770, AC000379, AL031276, AC002312, AC006042, Z68870, AL031589, AL009181, AL023284, Z97183, AL049694, AL035086, AP000317, AP000051, AP000119, AP000166, AJ006952, AC007263, AL080286, AC005837, AL132985, Z86090, AL096774, AC004134, AC005913, AC003071, AC005972, AC005578, AC000085, AC003693, AL121754, AJ006345, AC004701, AL109963, AC005562, AC002044, AL049856, AL035417, AL031670, AC005043.

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HNGO022	4762	953888	1 - 143	15 - 157	AA631933, AL859906, AL049694, AC004974, AC007358, AL031680, AF178030, AC004851, AP000696, AP000697, AC007746, AC010197, and AC005876.
HNGOP04	4763	926972	1 - 411	15 - 425	AA424261, AA868202, AA639008, and AA721512.
INGOP10	4764	963483	1 - 438	15 - 452	AW148507, AA837087, AA126519, AW410354, AA664942, AA402129, AL537772, AA633762, AL341571, H25921, AA890425, AL096442, AW088581, R97336, AF034194, AF037630, AW027660, AW177790, AA380354, H95302, AA455483, AL623764, AA730422, AA070345, AW081303, AA324242, AL137013, AA51181, AA601356, AL021940, AL022396, AC003070, Z92542, AC005512, AP000193, AC005180, AP000117, L35667, AC004148, AC005483, AC007671, U85195, AC005181, AB000658, AC005520, Z97876, AC012384, AL117338, AC005513, AF135187, AC003104, AF129756, AL034549, Z98884, AC004453, AC005409, AC006045, AC008273, AC005736, AC005612, U73638, AC007193, AL022399, AL031848, Y14768, AC005751, AF172277, U51244, AC005042, AC005833, Z93017, U07562, AC007055, AC004685, AC004797, AL022238, U50537, AL023096, AC004874, AC003009, Z15025, AB020865, AC004976, AC005037, AC006441, AC005305, AL049546, AC006578, AL031284, AL022312, AC002468, AL031289, AL035078, AC005668, U45984, AC006199, AL031432, AP000331, AP000501, AF030453, AC004656, AC004694, AL022315, M58509, AC004799,

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HNGOV03	4766	922963	1 - 398	15 - 412	AC005844.
HNGOV65	4767	921416	1 - 284	15 - 298	
HNGOW13	4768	926929	1 - 408	15 - 422	
HNGOY01	4769	915210	1 - 680	15 - 694	
HNGOY10	4770	915012	1 - 372	15 - 386	
HNGOZ17	4771	880777	1 - 234	15 - 248	
HNGPH12	4772	969683	1 - 421	15 - 435	AL031654.
HNGPI08	4773	947384	1 - 681	15 - 695	
HNGPJ23	4774	855983	1 - 697	15 - 711	AA830964, R60323, AL536908, R73479, AA470779, AA113170, AW062702, AW029617, AC004953, AF024534, AC005086, and AL031588.
HNGPJ51	4775	805997	1 - 594	15 - 608	
HNGPL91	4776	959740	1 - 496	15 - 510	AC007157.
HNGPN01	4777	913782	1 - 531	15 - 545	
HNGPN46	4778	954997	1 - 576	15 - 590	
HNGPP61	4779	860145	1 - 500	15 - 514	AL096791.
HNGPR03	4780	949269	1 - 175	15 - 189	
HNGPS10	4781	963469	1 - 590	15 - 604	AA878407, AA525331, AW381823, T69571, AI912401, AL134167, AA904211, AA657910, AW381816, AW054936, AI671077, AA318492, AA557984, AW392414, AA318209, R70883, H29914, R70884, AA658934, AI923052, R93919, AA279919, AA122307, H43183, AA772704, H67064, AA445908, AI889579, AI198718, AL044339, AA523695, F35902, AI280266, R69527, AA584525, AA070330, AA805573, AA504951, H43771, AA827904, AA804334, AI914713,



AL473671, H01243, AA489390, AA668829, AW389929, AA654482, AA056248, AA228778, AW270429, AL044177, N54538, AL686431, AL035462, AL031123, AC007201, AC005796, AF030453, AC005088, I34294, U52111, Z84487, AC005756, AC004217, AF108459, AC005339, AP000350, AL022156, L47234, AL021546, AL050341, AC003108, AL035457, AC008126, U91321, AC002119, AC009248, AP000011, AC005874, AF134471, AC007240, AL033527, AC004973, AC002418, AC004386, Z84469, AC003109, AC004584, Z95331, AC004990, Z86064, AC006275, AC005775, AC003665, AC007565, M87889, AC006372, AL034420, AL133448, AC004125, AP000694, Z93023, AL050317, AC002059, AC000052, AL022320, AL020993, AC004796, AL049643, Z84466, AL031121, AF196971, AC002546, AL022721, AC004030, AL109620, AC004941, AL035413, AL022165, AL133275, S42653, AF003626, Z84486, AC010169, AL031282, AL034423, Z82205, AF207550, U82671, AC004448, AC005972, AL117340, M57627, AL031721, AL031315, AC003007, AC004022, AC004905, AC006512, AC005632, AC004815, AC005081, U16720, U73169, AC003110, AF024534, AC002314, Z82217, AC003959, AL049575, AC004111, AC007899, AL050307, AC002400, Z82215, AC005912, AC006538, AC002037, AC005328, AC003667, AC006536, AC002352, U52112, U94776, AB017567, AJ131757, AL031284, AC002126, AC004921, AC004531, AC000134, AC005274, AL133304, AC006101, AC005544, AC005988, AC007066, AC005625, Z82244, AC006251, AL035604, AL031848, AC005669, AC005971, AC005067, U95740, AC003690, AC000063, AL031258, AC005790, Z84496, Z97630, AL008637, AL031666, AL096816, AL049712, AC005082, AC004882, U91318, AL031733, AC005529, L78810, AC010170, AL022311, AC006942, AC005372, AC005476, Z82214, Z83846, AL034554, AL022316, AC002492, AC008249, AC003684, AC004991, Z69921, Z84480, AC006515, AC007707, AC006125, Z82208, AL049576, AL008709, AC004814, AP000223, AP000085, AF196970, AL078600, Z94056, AL031120, AC005284, AC002365, AC006064, U63312, AP000128, AP000206, AC006146, AC004835, AC006360, AC022517, AP000245, AC005920, AC006270, AJ239318, E15701, AF015416, AF148213, AB014588, AF102137, AC004801, Z68129, AC002451, AC007766, X96421, L10641, and AL008719.					
HNHAB29	4782	860141	1 - 132	15 - 146	Z98886.
HNHAB93	4783	527921	1 - 136	15 - 150	
HNHAF77	4784	527971	1 - 123	15 - 137	
HNHAG50	4785	527815	1 - 217	15 - 231	
HNHAG51	4786	725898	1 - 222	15 - 236	
HNHAG64	4787	527809	1 - 234	15 - 248	AA974734, AW072398, Z39952, F03162, and AL137476.
HNHAH38	4788	860118	1 - 411	15 - 425	
HNHAH84	4789	527806	1 - 274	15 - 288	
HNHA11	4790	967668	1 - 479	15 - 493	AA834563, AA707629, and AA465337.

HNHAI15	4791	860128	1 - 115	15 - 129	
HNHAI68	4792	527572	1 - 151	15 - 165	
HNHAJ59	4793	703576	1 - 404	15 - 418	
HNHAK83	4794	574391	1 - 307	15 - 321	
HNHAP79	4795	574384	1 - 125	15 - 139	
HNHAW75	4796	515480	1 - 637	15 - 651	<p>AA835691, AA261783, and AI660058.</p> <p>AI866487, AL038971, AL631119, AW167374, AI445088, AA904211, AA613624, AI469599, AW301483, AA503019, AA173334, AI017251, AA578832, AA832145, AI719142, AA236867, AI857836, AI281818, AW167330, AA630535, AI362442, AW021583, AF050154, AI249921, AC005015, Z84466, AL035413, AC005529, AP000692, AL096701, AC005821, AC005527, AL121653, U91326, AC007225, Z98946, AC005225, AC006088, AL035587, AL109984, AC006026, AC006538, AC005933, AC004841, AC007011, AP000694, AC006449, AC007308, AL133246, AC005280, AC005755, Z93023, Z85987, AC007216, AC005089, AL080243, AC004929, AC007193, AC006285, AL049569, AL021154, Z93017, AL024498, AC007386, AP000501, AL031311, AL121603, AC007298, AC002470, AL022330, AP000557, AC006441, U91321, AP000510, Z86090, AC006312, AC007664, AC005207, AC007277, AL020993, AC006241, AL035071, AC007546, AC004019, AC004491, AC009516, AC005520, AF001549, AC004032, AC004216, U95739, AC004686, AC004814, AC005300, AC005291, AC005907, Z83844, AL133163, AP000116, AC004858, AF111168, AC007055, AC002350, AC006275, AL035659, AP000555, AC005011, AC004890, AC002126, AC004685, AC005779, AL136295, AC002352, AL031295, AC002398, AL022336, U85195, AC007707, AL109798, Z82214, AC005899, AP000696, AC007199, AC005288, AE000658, AC007537, AL049539, AP000065, AC005088, AC005702, AC002302, AL109628, AL034417, AL049766, AC007731, AL024508, AC006277, AP000553, AL022165, Z99716, AC005914, AC005500, AF053356, AC004534, AC007052, AC006211, L78810, AF038458, AL139054, Y14768, AC005736, AC005618, AC007114, AL133448, AC004876, AL049757, AC004084, AP001053, AC003070, AC004033, AC004000, AF109907, AC006965, AC004796, AC005484, AL021155, AP000505, AL035455, AC000379, AC006544, Z85986, AC004134, AC004851, AC002312, AC005412, AL035422, U96629, AC007358, AC004963, AC005730, AF129756, AC002404, AC005071, AC005940, AC007666, AC005081, AC000025, AF134726, AL049872, U91323, AL022326, AC005519, AC004832, AC004099, Z97054, AL109758, Z93244, AC005049, AF196969, AL031985, Z82203, AP000030, AC002558, AF196779, AL049709, AC005082, AL022311, AL121658, AC004386, AL034423, AP000512, AC004922, AC006251, AL117258, AL031584, AC004865, AL031685, AC006581, AL008582, AC005409, AC005037, AC004253, AL132712, AC002544, AC002115, AL050307, AL035086, AL022313, AC007030, AC004805, AL034548, AC005480, AL035683, AP000251, AC006064, AL031662, AC005057, AC003101, AC005531, AL022320, AC005399, AC007919, AL035400, AC005619, AC008044, AC005086, AL024507, AC004883, AL117694, Z82244, AC002045, AC005972, AF107885, AC007688, AC005488, AC002301, AL110502,</p>

HNHBC30	4797	693318	1 - 250	15 - 264	AL031281, Z84480, AC005694, AP000117, and Z94801.
HNHBE19	4798	724404	1 - 349	15 - 363	AA594550.
HNHBH62	4799	574387	1 - 308	15 - 322	
HNHBH72	4800	577334	1 - 386	15 - 400	AC004520.
HNHBK22	4801	574305	1 - 259	15 - 273	AA758873, AC004770, and AL117582.
HNHBK59	4802	959771	1 - 292	15 - 306	
HNHBK80	4803	721688	1 - 227	15 - 241	
HNHBM63	4804	574310	1 - 290	15 - 304	
HNHBM66	4805	860119	1 - 361	15 - 375	
HNHBO20	4806	793416	1 - 652	15 - 666	Z65368.
HNHBO71	4807	868059	1 - 310	15 - 324	
HNHBO83	4808	526746	1 - 223	15 - 237	
HNHBQ53	4809	574090	1 - 162	15 - 176	AC003954.
HNHBS07	4810	953850	1 - 411	15 - 425	
HNHBS23	4811	574048	1 - 314	15 - 328	
HNHBS38	4812	925693	1 - 956	15 - 970	
HNHBU20	4813	669866	1 - 243	15 - 257	
HNHBU21	4814	574030	1 - 350	15 - 364	
HNHBU37	4815	574139	1 - 326	15 - 340	
HNHBU79	4816	597123	1 - 255	15 - 269	AC005067.
HNHBU82	4817	577193	1 - 382	15 - 396	AW005603, AA504818, AW021007, AA632556, AJ054090, AJ246061, AA135988, AA714073, AI678476, AA244181, AI591134, AW079667, AI343669, AI309121, T55707, AI445373, T07225, AA878407, N66927, N69399, AI049701, AA493447, AA632765, AI471467, AI185394, F18761, AA135811, AI431513, AI439676, H79586, AI869786, AA657910, AI300413, AI342786, AA995373, AI869797, AA713705, AI284543, AA599749, AI762302, R83068, AI254770, AA297961, AI251944, AI251034, AI251203, AI251284, AI800706, AA613162, H93717, AI635196, H42893, F31811, AW007424, AI884861, AI250552, AW303098, H43183, AA527109, AA845825, AA678616, AI223968, N52293, AA610255, AA804729, AI049504, AI302277, AI561210, AA569734, AI499941, AI002762, AA325250, AI915081, AI564301, AA376896, AI251024, AI143653, AI520967, AI249853, AA595656, R71796, AI628859, AA744048, AW019964, AA358337, AI137946, AI376197, AI567941, AA778962, AA226770, AA083681, AA594227, H86579, AA632839, AA083839, AA053463, AA568425, AI609574, AA565911, AA744428, AI539822, AI300818, AI310992, AA856866, H52472, AI653783, F08214, W78056, R80563, AA569597, AI733647, AI733662, AA743976, R35259, AI453160, AA449979, Z96216, L78442, AL078621, AC005015, AL022311, AC004887, AC006516, AC008101, AC008079,

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HNHBU91	4818	765815	1 - 220	15 - 234	
HNHBU92	4819	753550	1 - 320	15 - 334	
HNHBU93	4820	757745	1 - 404	15 - 418	
HNHBU95	4821	574026	1 - 236	15 - 250	
HNHBU96	4822	936012	1 - 356	15 - 370	AI732313, AI732289, R48562, R69392, AA598605, AI283938, T48780, AA525331, AA302978, AI039257, AA857812, AA809089, AA468975, AA351427, AA862075, AA25273, AA156323, AI473671, AI537020, AA481887, AA828844, AA613761, AA551105, AA570238, AA904211, AI719298, AA878492, H90114, T07327, F00688, AI984118, AA368616, AA602477, AA502991, AI064786, AA135988, AA491767, R06030, AA612727, AA493789, AA829036, AI066711,

AA804995, AA085410, R98002, H49253, AA523695, R97239, T94072, AA128941, F29968, AA578621, AL246080, AA364082, AL679871, AA778962, AI886736, AA303054, T58440, H95865, AL246996, AL679294, AA021189, AA452325, AW328446, AL277373, AA847499, AL278440, AA378474, AL332615, AA742818, AL742168, AA349606, AA496724, AL309943, T07903, AA021429, AA018588, AA021428, AA054055, M78032, AA086042, AA587835, AA661583, T05684, AA342626, W01323, AA458573, AA721572, AA019872, N26230, AA397821, AA135811, AA714011, AW023111, AL653783, AL590926, AA765925, AA599423, AL034555, AC007055, I34294, AL078600, AC007227, AC005300, AC005082, AF205588, AC004859, AC007536, AC005778, AC005914, AC000134, AL022313, AP000010, AL109827, AB015355, AL080243, AC004253, AC007193, AL031291, Z15025, AC005913, AC005588, AL031283, AL035086, AC008372, AJ246003, Z98884, AC004896, AL117337, L05367, AC005736, AL109984, AC006166, AL022323, AC002350, AC006479, AP000032, AC004876, AC006538, AC006312, AC007056, AL117338, AC006449, AC005089, AL049780, AC004129, AL022238, AC005037, AL121658, AC002477, AC006251, AL136501, AL121653, AC007842, AL117344, AC004134, AC005081, AC004686, AC007263, AC004408, AC006966, AC007308, AC005200, AC004841, AL008729, U47924, AP000313, AC006084, AL024498, AC002470, AF045555, AP000194, AC004820, AP001052, AL132712, AC005971, AC006213, AC004983, AP000493, AL022318, AC005254, Z95115, Z75407, AC004520, AB023051, AC004973, AC004905, AC006001, AC003684, AL133163, AL049575, AC005015, U52111, AP000226, AP000350, AP000356, AC004890, AP000050, AC005261, AC000024, AL049694, AL096702, AC005317, AC006115, D87011, AC016830, AC006000, AC005484, AC005562, AF038458, AC004967, AP000144, AL049874, AP000087, AC005332, AL031133, AC002565, AC005527, AL031622, Z84476, AC004231, AC007785, AP000117, AP000355, AC004814, AC008101, Y14768, Z98200, AL133243, AC005316, AL022324, AP000505, AC006065, AC005622, AC005821, AC005529, AC002531, AF196970, AC006515, AC006237, AL031432, AC004815, AC004753, AL109967, AC004491, AL034420, AL109758, AC006271, AC009542, AC007544, AL049712, AC005369, AC007540, AC007225, Z99716, AC002425, AF001549, AC003007, AC005099, AL021707, AF129756, D87009, Z97054, Z99943, AL049198, AF111167, AL035398, AC007792, AL121595, AL133382, AC005531, AL031230, AL021808, AC005632, AC007546, Z84486, AC005088, AL132987, AL049776, AC004228, AF030453, AC005542, AP000513, AP000695, Z94056, X55448, X54486, AL034548, AC004927, AP001065, Z95331, AC006012, AC005786, AC003101, AC004832, AF146191, AL034375, AC005789, AF069489, AP000553, AP000512, AL050318, Z68276, AL139054, AF207550, AC007314, AF104455, AC0010200, AC002074, Z98950, AL109854, AC006581, AC002310, M55987, AL031655, AF109907, AC004955, AC004805, Z97055, AC004526, AC008079, AL049643, AC005901, AP000104, AJ229043, AL021453, AC003035, AL031427, AC005004, Z75744, AC009516, AC006211, AC005072, AC002126, AC004663, AC005189, AC005399, AP000167, AP000052,
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HNHBY45	4823	774280	1 - 377	15 - 391	AC006262, AF165926, AC004821, and AL022336.
HNHBY60	4824	964712	1 - 218	15 - 232	AL031654.
HNHBY83	4825	694401	1 - 478	15 - 492	AC004258.
HNHBY03	4826	924873	1 - 387	15 - 401	
HNHCC42	4827	577343	1 - 345	15 - 359	
HNHCD63	4828	574309	1 - 384	15 - 398	AC007758.
HNHCE68	4829	574028	1 - 425	15 - 439	
HNHCI25	4830	679154	1 - 407	15 - 421	
HNHCI35	4831	860112	1 - 409	15 - 423	
HNHCI39	4832	574084	1 - 117	15 - 131	AC005390.
HNHCI68	4833	753558	1 - 237	15 - 251	
HNHCI71	4834	760565	1 - 225	15 - 239	
HNHCI80	4835	786033	1 - 485	15 - 499	AA135377, AL016828, AA572714, Z77249, AC005899, AL022336, Z96074, AC004841, AF111168, AL049780, AL035249, AF048728, AL080317, AC004605, AC009721, AC005033, AC005067, AL049776, AC004797, AC006544, AF205588, AP000300, AC008372, AC009509, AL031733, AP000045, AP000113, AC004593, AL031276, AC010205, AC005409, AC005619, AL139054, AL034423, AC005015, AC016831, AL035415, AC005081, AL031577, AC004659, AC004589, AL022400, AC004983, AB022785, AP000065, AC004925, AC005740, AC004895, AF017104, AC006063, AL009181, AC004923, AC005355, AL022326, AP000512, AC004707, AC001226, AC003663, Z98200, AC005058, AL049872, L78833, and AL096701.
HNHCL20	4836	780527	1 - 420	15 - 434	AA362218.
HNHCL38	4837	574082	1 - 211	15 - 225	
HNHCL47	4838	719476	1 - 264	15 - 278	
HNHCLM80	4839	573010	1 - 279	15 - 293	
HNHCLN70	4840	577186	1 - 187	15 - 201	AC009405.
HNHCO27	4841	574337	1 - 205	15 - 219	
HNHCO48	4842	860641	1 - 425	15 - 439	
HNHCO64	4843	574147	1 - 392	15 - 406	AC007559.
HNHCP18	4844	666844	1 - 196	15 - 210	AP000350.
HNHCP22	4845	934307	1 - 573	15 - 587	
HNHCP37	4846	866950	1 - 361	15 - 375	AW419246, and AW277087.
HNHCP78	4847	506696	1 - 312	15 - 326	
HNHCP88	4848	574341	1 - 228	15 - 242	
HNHCQ70	4849	757410	1 - 431	15 - 445	R69234, H70121, and AC005071.
HNHCU18	4850	574394	1 - 118	15 - 132	

HNHCU42	4851	850918	1 - 664	15 - 678	AI539360, AC003007, and AC005632.
HNHCU57	4852	735005	1 - 226	15 - 240	
HNHCV72	4853	766213	1 - 387	15 - 401	R38821, and AF070579.
HNHCZ07	4854	953881	1 - 321	15 - 335	
HNHCZ23	4855	574325	1 - 318	15 - 332	AI366208, AC002041, AC002038, AC006352, and AJ239321.
HNHDA07	4856	855988	1 - 443	15 - 457	
HNHDA79	4857	574350	1 - 140	15 - 154	
HNHDA88	4858	574150	1 - 147	15 - 161	
HNHDB11	4859	574323	1 - 488	15 - 502	
HNHDB23	4860	676290	1 - 488	15 - 502	
HNHDB46	4861	574329	1 - 488	15 - 502	
HNHDB93	4862	800661	1 - 60	15 - 74	
HNHDC26	4863	574304	1 - 341	15 - 355	
HNHDC47	4864	708705	1 - 329	15 - 343	
HNHDC83	4865	577339	1 - 421	15 - 435	
HNHDC95	4866	734794	1 - 196	15 - 210	
HNHDE38	4867	709277	1 - 334	15 - 348	R67093, AW316599, AL121287, AI313157, AA807556, AA188940, R91931, AA491440, AI453160, AI564294, AA683069, AA632765, AW081324, AI471467, AL041895, AA614595, AA564682, AA469441, AA314338, AW007424, AA366847, AW028834, AI891075, AW058223, AJ011930, AJ003147, AL022724, AL096761, AC002477, AL031592, AL049539, AC002357, AL024498, AC005599, AC005082, Z96776, AC003108, AL096766, Z84469, AL020997, AP000555, AL031311, AC002418, AC007993, Z83843, AC004386, AC005778, AL109952, AC004770, AC005015, AC002472, AC005625, AC012039, AC006293, AB003151, AP000688, AC005245, AC005777, AL034582, AP000502, AC002394, AF019413, AL049557, AL133448, AF134726, Z69721, AC000069, AC002314, AC000095, AC007326, AC005726, AL133445, AC006449, AC004031, AC006071, AC005998, AC005484, AC005005, AC005288, AC005514, Z82243, AJ239325, AC004834, AL008583, AC003982, AL121603, AC004882, AC005081, AC005529, AC004131, AB017602, AC004883, and AC000025.
HNHDF31	4868	968249	1 - 223	15 - 237	AC006560.
HNHDF48	4869	574385	1 - 200	15 - 214	
HNHDI06	4870	936046	1 - 327	15 - 341	
HNHDI60	4871	860101	1 - 314	15 - 328	
HNHDL62	4872	577701	1 - 213	15 - 227	
HNHDL90	4873	789082	1 - 466	15 - 480	
HNHDL94	4874	773592	1 - 312	15 - 326	
HNHDM03	4875	924713	1 - 389	15 - 403	

HNHDM40	4876	711352	1 - 341	15 - 355	AC007052.
HNHDM50	4877	724550	1 - 539	15 - 553	H41308, N94134, H37815, H51061, H69577, U47924, AL049872, AP000121, AF111169, AC005332, U63721, AL031681, AC005839, AP000321, AL022165, AC005280, AC005412, AC002310, AC005488, AC005736, AC004895, AC005015, AC005180, AF001549, AC006120, AC006965, AC004983, M15958, AC007151, AC004797, AC005081, Z99716, AC002470, AL133245, AP000167, AP000052, Z93241, AL023553, AC004998, AC004686, AC007312, AC006088, Z93017, AL049776, AC004815, AC004923, AP000113, AC006211, AC003109, AC003108, AC004596, AL139054, and AC002519.
HNHDM74	4878	506621	1 - 423	15 - 437	
HNHDM27	4879	573388	1 - 188	15 - 202	
HNHDM79	4880	735007	1 - 304	15 - 318	
HNHDP04	4881	859988	1 - 738	15 - 752	AI143917, E04378, D10017, AF023669, AB032964, E04379, and E04380.
HNHDP29	4882	746093	1 - 340	15 - 354	
HNHDQ11	4883	967334	1 - 482	15 - 496	
HNHDQ17	4884	573328	1 - 347	15 - 361	
HNHDQ35	4885	707334	1 - 325	15 - 339	
HNHDQ39	4886	704560	1 - 147	15 - 161	
HNHDQ56	4887	577256	1 - 494	15 - 508	R53975, AC005226, AC004690, AC004814, and AL031132.
HNHDQ65	4888	573357	1 - 337	15 - 351	
HNHDQ71	4889	496246	1 - 570	15 - 584	
HNHDQ93	4890	923817	1 - 416	15 - 430	
HNHDR10	4891	968082	1 - 367	15 - 381	AI053568, AA570255, AW069227, AW161879, T05834, AC007276, AP000355, AP000356, AL049795, U91326, AC005071, AL024507, AL035447, AC005081, U91323, AC007637, AL022476, AC004167, AC004491, AL031311, AC002563, AC005480, Z75407, AL008582, AC002425, AC004821, U91318, AC004099, AC005089, AF111168, AL024498, AC002073, AC005500, AC007192, AC002094, AP000512, U78027, AC005412, AC000379, AC005067, AC005212, AC007216, AL022165, AL021918, AL031432, AL035249, AC005736, AC007387, AC005520, AC007842, AC007421, AC007225, AL133163, AL132712, AL031587, AC002472, AC005971, AC005193, AB003151, AC004765, AC005015, AF030453, AC008018, AC005821, AL031255, AC005696, AL049589, AC005180, U25956, AC005088, AL133312, AL031680, AC006480, AC004125, AC007664, U95740, AF165926, AC008101, AC005011, U52111, AC005523, AC006449, AC004067, AC005091, AC005189, AC006023, AC005730, AC006581, AC007566, AC006487, AC004143, AL049843, AP000557, AC005094, AC005280, AC005261, AC005274, AC004033, AL050338, AF001550, AC000134, AC005839, AL121603, AF069074, AC002126, AL133243, AP000116, Z98044, AC005488, AL031683, AL031685, AF053356, AL133246, AL022316, AC005338, AC005722, AL031295, AL022318, AC006251, AC004019,



						AC004663, AC006277, AF196779, AL034549, AL008730, AL049776, AC004801, AC004859, D84394, AL049872, AL022311, AP000689, AC002369, AP000113, AP000045, AP000555, AC004882, AP000509, Z93930, AL096703, AL117694, Z95114, AC006130, AC005914, AC004991, AC007279, AC006241, AC009247, AL049539, AL022313, AC004662, AC003109, AC002350, AC005568, AC004815, AC007193, AL096773, AC002470, AC007292, Z83844, AC004983, AL139054, AC004893, AC007308, AC009464, U73479, AC012039, AL023553, AC006441, and AC010170.
HNHDR28	4892	685580	1 - 410	15 - 424		AW086034.
HNHDR71	4893	575480	1 - 451	15 - 465		
HNHDS27	4894	683585	1 - 246	15 - 260		
HNHDS83	4895	573347	1 - 200	15 - 214		
HNHDS88	4896	573349	1 - 334	15 - 348		
HNHDT01	4897	917004	1 - 369	15 - 383		
HNHDT28	4898	887158	1 - 447	15 - 461		AA311373, AA318324, AI623755, AW263181, AI979227, AA423972, AW193871, AL048971, AP000528, AP000529, and AC004527.
HNHDT42	4899	574455	1 - 245	15 - 259		
HNHDT54	4900	728871	1 - 482	15 - 496		
HNHDT83	4901	717796	1 - 428	15 - 442		
HNHDT50	4902	506622	1 - 275	15 - 289		
HNHDT84	4903	750262	1 - 372	15 - 386		
HNHDT78	4904	723189	1 - 271	15 - 285		
HNHDX80	4905	779334	1 - 329	15 - 343		
HNHDX84	4906	615272	1 - 230	15 - 244		
HNHDT18	4907	573329	1 - 367	15 - 381		
HNHDT37	4908	582473	1 - 187	15 - 201		AI809475.
HNHDT45	4909	576776	1 - 320	15 - 334		AA320060, AA581317, AA488419, W96277, AA554958, AA020873, AI923052, AI207534, Z84484, AC004912, AC005015, AC004813, AL009181, AC005914, AL024507, AL022312, AL023876, AL096775, AC002126, AC004408, AC005207, AL132987, AC006450, AC006576, AC004070, AL034423, AP000036, AL050306, AC002412, AP000099, AC006121, AL132796, AC008012, AC008372, AC007563, AC004034, AP000353, AC004890, AC004031, AC004656, AP000466, AP000322, AP000168, AP000053, AP000133, AP000211, Z97989, AC004910, AC007938, AL117355, AL035460, AC006277, AC002077, AC004763, AC005899, AC004585, AP000121, AC003029, AC006581, AC002511, AP000563, and AC002546.
HNHDT50	4910	924211	1 - 163	15 - 177		
HNHDT54	4911	945708	1 - 581	15 - 595		
HNHDT83	4912	795954	1 - 243	15 - 257		AL031274, Z98941, AC010582, and AL121576.

HNHDZ14	4913	506738	1 - 312	15 - 326	AL033525.
HNHDZ26	4914	419716	1 - 418	15 - 432	AW024707.
HNHDZ69	4915	573346	1 - 236	15 - 250	
HNHEA06	4916	835893	1 - 340	15 - 354	
HNHEA21	4917	574868	1 - 229	15 - 243	E04378, and D10017.
HNHEA40	4918	573327	1 - 273	15 - 287	
HNHEA96	4919	796491	1 - 330	15 - 344	AA322484, AA501575, and AA339577.
HNHEB47	4920	573339	1 - 185	15 - 199	
HNHEB88	4921	412655	1 - 128	15 - 142	
HNHEC40	4922	576507	1 - 347	15 - 361	
HNHEC51	4923	577306	1 - 406	15 - 420	
HNHEC96	4924	796463	1 - 356	15 - 370	
HNHED02	4925	920414	1 - 394	15 - 408	
HNHED51	4926	682992	1 - 673	15 - 687	
HNHED82	4927	576541	1 - 410	15 - 424	Z82249.
HNHED83	4928	576540	1 - 317	15 - 331	
HNHER25	4929	576512	1 - 371	15 - 385	AI636627, AC004916, AC007878, AL008987, AL023799, AL080317, AP000959, AF064866, AC006965, AL096707, AC006441, AL035443, AC004687, AC006948, AL021329, AL022163, AF001905, AC005053, AC006324, AC007748, AC005826, AC007182, AC002476, AC005844, AC008170, AC003983, AC006368, and AF043945.
HNHER30	4930	576440	1 - 425	15 - 439	
HNHEE38	4931	860073	1 - 227	15 - 241	
HNHEE40	4932	576442	1 - 423	15 - 437	AF130343.
HNHEE49	4933	576820	1 - 396	15 - 410	
HNHEF01	4934	916792	1 - 336	15 - 350	AL031447.
HNHEF73	4935	576419	1 - 261	15 - 275	
HNHEG28	4936	586443	1 - 322	15 - 336	
HNHEG32	4937	576426	1 - 420	15 - 434	
HNHEG49	4938	576415	1 - 372	15 - 386	
HNHEG68	4939	861181	1 - 286	15 - 300	
HNHEG91	4940	506278	1 - 346	15 - 360	
HNHEH04	4941	582732	1 - 329	15 - 343	
HNHEH37	4942	490514	1 - 495	15 - 509	AA357626.
HNHEH41	4943	578589	1 - 298	15 - 312	
HNHEH51	4944	678114	1 - 438	15 - 452	
HNHEH52	4945	860021	1 - 398	15 - 412	N57205, AI312090, AI312784, AC004885, AC004584, AC006511, AC003982, AL021391, and

HNHEH60	4946	576517	1 - 391	15 - 405	AL031003.
HNHEI06	4947	923080	1 - 363	15 - 377	
HNHEI64	4948	576549	1 - 315	15 - 329	
HNHEJ07	4949	953586	1 - 427	15 - 441	
HNHEJ11	4950	967265	1 - 731	15 - 745	
HNHEJ23	4951	576533	1 - 364	15 - 378	
HNHEJ24	4952	916556	1 - 221	15 - 235	
HNHEJ44	4953	716723	1 - 303	15 - 317	
HNHEJ57	4954	576535	1 - 234	15 - 248	
HNHEJ85	4955	964882	1 - 149	15 - 163	
HNHEK01	4956	916790	1 - 452	15 - 466	AJ009794.
HNHEK63	4957	576819	1 - 453	15 - 467	
HNHEK79	4958	954548	1 - 319	15 - 333	
HNHEK83	4959	576420	1 - 325	15 - 339	
HNHEL09	4960	576418	1 - 309	15 - 323	
HNHEL37	4961	713723	1 - 587	15 - 601	
					AJ223321.
					AL031003.

HNHEL42	4962	859830	1 - 448	15 - 462	AC007192, AC003108, AC007182, AP000501, AC006084, Z88282, AC002312, AL031773, AC006511, AF053356, AC005387, L44140, AC006121, AC005358, AC004813, L78810, AC005095, AL031733, AC007151, AC007225, AC005773, AC005822, AL031685, AC006323, AL020993, AF165926, AC005480, Z81370, AC009363, AC000025, AL031282, AL022302, AC004000, AC000353, AC006344, AF001548, AP000346, AC006111, AC005377, Z98750, AL035588, AL034379, AL022721, AC006033, AC004854, U91326, AL049761, AC005229, AF159056, AC005921, AC005821, AC005922, AC005695, AC005520, AP000065, AL035458, AC000120, AP000356, Z79997, AL049839, AC005209, AC004805, AC006581, AC002314, AC004148, AC007279, AC005527, AL121653, AL034417, AC004929, AC002476, and AC007637.
HNHEL44	4963	576423	1 - 254	15 - 268	
HNHEL53	4964	506281	1 - 360	15 - 374	
HNHEL82	4965	576430	1 - 579	15 - 593	
HNHEL94	4966	786930	1 - 410	15 - 424	AA761183, AA806545, AA651905, AA811074, AA836161, AW341564, AW404901, AL393457, AW292488, AL671881, AA741473, AA281261, and AA994866.
HNHEM04	4967	950725	1 - 350	15 - 364	
HNHEM34	4968	860047	1 - 343	15 - 357	
HNHEM35	4969	576424	1 - 339	15 - 353	
HNHEM83	4970	825354	1 - 594	15 - 608	AL040165, T59913, AF109718, AC004916, and AC004987.
HNHEM85	4971	783480	1 - 332	15 - 346	AL031668.
HNHEN02	4972	920420	1 - 420	15 - 434	
HNHEN16	4973	615402	1 - 420	15 - 434	Z82975, and AC007102.
HNHEN56	4974	733521	1 - 432	15 - 446	N25067, AL741934, R93919, AA854983, AA065087, AA159978, and AF196971.
HNHEN66	4975	576544	1 - 432	15 - 446	
HNHEN76	4976	576542	1 - 437	15 - 451	
HNHEO29	4977	576548	1 - 427	15 - 441	
HNHEO43	4978	860046	1 - 690	15 - 704	
HNHEO83	4979	706683	1 - 196	15 - 210	
HNHEO84	4980	859992	1 - 420	15 - 434	T62624, AA018757, AA457771, AL043721, AL198376, AL471572, AW072923, AA482810, R83097, AL133163, AC005971, AC005288, AC006079, AL050309, U96629, AL031311, AC004814, AL022238, AC005899, AC005614, AC005011, AP000215, AC007546, AC004019, AC004150, AC005251, AC004257, AC007666, AC005602, AC005696, AC002544, U91326, AF196779, AL050332, AC004596, AP000350, AC003662, Z95331, D84394, AC005412, AC005034, AC006241, AC005531, AC004895, AL121653, Z82215, AC005703, AC012627, AC006449, AC004253, Z85987, AC007934, AC006312, AL080243, AC005823, Z85986,

						AC006379, Z83844, AC005858, AL049636, AP000555, AC007565, Z21688, AC007011, and AL050333.
HNHEP49	4981	576453	1 - 326		15 - 340	AF109076.
HNHEQ07	4982	953577	1 - 438		15 - 452	
HNHEQ46	4983	576437	1 - 297		15 - 311	
HNHEQ60	4984	576455	1 - 226		15 - 240	
HNHEQ70	4985	577188	1 - 423		15 - 437	
HNHEQ92	4986	576456	1 - 349		15 - 363	AL031290.
HNHEQ94	4987	577303	1 - 236		15 - 250	
HNHER06	4988	918651	1 - 272		15 - 286	AC004036.
HNHER21	4989	496484	1 - 517		15 - 531	
HNHES05	4990	932092	1 - 312		15 - 326	
HNHES06	4991	859833	1 - 278		15 - 292	
HNHES07	4992	953443	1 - 381		15 - 395	
HNHES11	4993	967128	1 - 383		15 - 397	
HNHES23	4994	675946	1 - 475		15 - 489	AA215634, AA825300, AA491266, AW136478, and AA282054.
HNHES35	4995	576497	1 - 387		15 - 401	AW249240, and AC006261.
HNHES56	4996	881504	1 - 381		15 - 395	
HNHES61	4997	973297	1 - 493		15 - 507	AA093346, AL261785, AA714323, AC005498, AP000457, AL049641, AC005064, AL109764, AL049710, AC000119, AL049565, AC005019, AC004454, AL050401, AL049834, U66059, AC004842, AL035695, AC004741, AF101874, AC004908, AL132777, AL133312, AL049778, Z71182, AL135879, AL121790, AC007239, AL023806, AC004948, AL031663, AC004949, Z70227, AC005873, AB020861, AL021451, AC005199, AL031114, U01882, AC007444, and AC005502.
HNHES81	4998	777979	1 - 370		15 - 384	AJ011414, AJ011415, X87904, and AB007867.
HNHET11	4999	967127	1 - 388		15 - 402	
HNHET17	5000	576746	1 - 430		15 - 444	
HNHET24	5001	860006	1 - 368		15 - 382	
HNHET25	5002	953410	1 - 373		15 - 387	
HNHET57	5003	577360	1 - 445		15 - 459	T57118, AC004966, AC007544, and AC007253.
HNHEU50	5004	724449	1 - 342		15 - 356	AA758275, H52638, AL445536, AA601208, AA354868, AW151201, AA209436, AL628200, AL628178, AA557911, T41164, T41132, AT745473, AA491361, AA311060, AW103782, AA569053, H40478, F23268, AA708305, AL859742, AL452836, H48734, M62264, AL459798, AC005231, AC005899, D87675, U85195, AC007221, AC006312, AC005049, AC005954, AC005736, AC005529, AL009181, AF134726, AL031589, AC005531, AC006120, AC007993, AL022336, AC016830, AP000255, AL033381, AL139054, AC005971, AP000135, AL024498,

					AC006530, AB017602, AC016027, AP000031, AL031387, AC004509, AL021939, AP000008, AC003962, AL080243, AP000704, AC006125, AC005206, AC006571, AC006121, AC004185, AL109628, AL049776, AC005988, AC007227, AP000117, AC002558, AC007899, AC005667, AL096775, AC005837, AF141309, AC005399, AC007676, Z99716, AF030453, AP000090, U82668, AC004882, Z83822, AC005520, AC005071, AC005829, AF006752, AL133448, AF031076, AC005932, AC005697, AL035659, AC005356, AC003101, AC004841, AC004526, AR036572, U91328, AC007057, AC008126, AC007738, AF196971, AP000044, AP000112, AL022318, AC004686, AP000503, AC004966, AC006088, AL121653, Z84721, AC020663, AL035410, AL021878, Z82184, AC007204, Z83826, AP000502, AP000213, AC007387, AC005245, AF207550, AC002310, Z95115, AC007546, AC006132, AC005914, AL031680, AC007041, AC002302, AC005519, AC005696, AL049553, AF208500, AL049759, AC004967, Z85986, AL096701, AC004552, AF000658, Z68279, AL031666, AC007688, AL022323, AP000228, AC004953, AP000509, AP000511, AL109798, AP000553, AC009516, AC005072, AC004797, AC002477, AC005940, AL096703, AL135960, AJ131016, AC003690, AF053356, AC000003, AC007773, AF124523, AF031078, AC007790, AC012627, U95740, Z97054, Z83844, AC005088, AP000050, AP000045, AC002301, AP000140, Z93017, U80017, AF030876, AC004491, AC005775, AC005902, AC007151, AL022721, M89651, AC007276, AL049709, AC006141, AP000088, AC006130, AC016025, AC005600, AC005046, AL133371, AC004655, AC002036, AC004765, AC006157, AP000049, AC004242, AC005067, AC005015, AL049757, AP000356, AL022315, Z93241, AC004941, U07562, AC005747, AC003688, AC007731, AC002504, Z98950, AC003982, AF001549, AC004019, AC004985, AC005500, AP000311, AC005763, Z98051, AJ003147, AC006539, AC006344, AL022238, AC004804, AC006511, AC004477, AC005562, AL031005, AC006388, AB012168, AC004152, AC004851, AC000353, AC003983, and AL031602.
HNHEU60	5005	576387	1 - 328	15 - 342	
HNHEU71	5006	574396	1 - 278	15 - 292	
HNHEV25	5007	571111	1 - 123	15 - 137	
HNHEV44	5008	716661	1 - 690	15 - 704	T79157, AL696334, H89746, AL133216, AF020782, AC004883, and Z96681.
HNHEV46	5009	577337	1 - 181	15 - 195	
HNHEV49	5010	575777	1 - 303	15 - 317	
HNHEW03	5011	924475	1 - 483	15 - 497	AL022098.
HNHEW14	5012	658506	1 - 477	15 - 491	
HNHEW19	5013	953446	1 - 359	15 - 373	T59662, T59795, and AF147377.
HNHEW21	5014	670987	1 - 243	15 - 257	
HNHEW75	5015	576361	1 - 402	15 - 416	
HNHEW76	5016	770081	1 - 391	15 - 405	

HNHEW95	5017	953566	1 - 382	15 - 396	AC005624.
HNHEX12	5018	970764	1 - 362	15 - 376	
HNHEX40	5019	711225	1 - 412	15 - 426	AL139302, AA534221, AA678404, N57939, AW007294, AL291560, AC005206, AC005667, AC004382, AC000353, AF030453, AC005088, AC004770, AC004835, AC007450, AL132777, AL035685, AL133355, AC005620, AC003012, AC022517, AC004598, AC005006, AC006449, AC003109, AL139054, AC004841, AC003684, AL022162, AL035450, AC004012, AC004985, AL035079, AC004447, AC005300, AC006126, AF196779, AL133500, AC007249, AC004228, AC002480, AL079342, AC004813, AC006101, AL049781, Z84476, AF139813, AL050341, AC004884, and AC005790.
HNHEX54	5020	575783	1 - 423	15 - 437	AL049646, Z55781, and Z54485.
HNHEX66	5021	860036	1 - 410	15 - 424	
HNHEX77	5022	860037	1 - 418	15 - 432	
HNHEY59	5023	959668	1 - 401	15 - 415	
HNHEY63	5024	575741	1 - 384	15 - 398	AL047308.
HNHEY93	5025	575745	1 - 290	15 - 304	Z82217, U95626, AC007751, AC005863, AC002288, and AC008069.
HNHEZ07	5026	953438	1 - 141	15 - 155	
HNHEZ18	5027	575788	1 - 154	15 - 168	
HNHEZ19	5028	887442	1 - 293	15 - 307	AL119623, and AB020628.
HNHFA05	5029	860033	1 - 506	15 - 520	
HNHFA11	5030	967126	1 - 397	15 - 411	
HNHFA35	5031	577302	1 - 398	15 - 412	
HNHFA59	5032	576394	1 - 400	15 - 414	AW083544.
HNHFB09	5033	575786	1 - 422	15 - 436	AL1612930, AA365413, AA224238, AA531079, AA074342, AA077737, AA679532, AA582463, N25272, AL042927, AA484658, AA847702, H02485, AA779454, AW265090, AL682665, AW129526, AL061313, AC006285, AC016025, L78810, M63391, AC004000, AC018633, M87925, AL035587, AC005778, AC005060, AC005523, AC003695, AC002091, AC004973, AL133312, AL078639, AC005696, AC005089, AC004031, AC005694, AC004655, AC007270, AC004981, AC005527, AL022336, AL139054, AC007637, AC004771, AC000072, AC006241, AL132777, AC007666, AC006387, AC006380, AF010400, AC005829, AL031662, AC004231, AP000065, AC003682, AC008125, AL080317, AC003025, AL021397, AC007676, AC005363, Z97054, AL096712, AF139813, AC004257, U89337, AC004643, U67220, Y18000, AL031431, L77569, AL049776, AC004228, AC007227, AL133448, AC005901, AL035071, AC006130, Z83846, AC005592, AB016195, AC004967, AC007787, AC004983, AC007688, AC001228, AP000228, AC003029, AB003684, AC012627, Z73420, AC019014, AC004760, AP000140, AC002464, AC005529, AC005049, AC002303, AC005220, AC008171, AC007314, AC005668, AC004150, AL020995, AC005520, AC005086, AL096861, AC006441, AC002365, AC002504, AC005274,

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HNHFB19	5034	668713	1 - 274	15 - 288		AC002073.
HNHFB27	5035	576865	1 - 415	15 - 429		AC007845, AC016025, and AC016026.
HNHFB32	5036	836006	1 - 432	15 - 446		
HNHFB39	5037	575740	1 - 408	15 - 422		AI082315.
HNHFB53	5038	728265	1 - 393	15 - 407		
HNHFC34	5039	860027	1 - 376	15 - 390		
HNHFC43	5040	583660	1 - 494	15 - 508		L47334, AC004944, U95739, and AL118509.
HNHFC60	5041	576438	1 - 522	15 - 536		
HNHFC61	5042	577185	1 - 380	15 - 394		
HNHFC67	5043	576385	1 - 348	15 - 362		
HNHFC78	5044	576435	1 - 376	15 - 390		AI525653, AI525669, and AI557222.
HNHFC92	5045	577240	1 - 326	15 - 340		Y18000, AC004882, and AC005529.
HNHFD46	5046	576796	1 - 370	15 - 384		
HNHFD88	5047	506354	1 - 345	15 - 359		AC004556.
HNHFE07	5048	953585	1 - 68	15 - 82		
HNHFE40	5049	576431	1 - 404	15 - 418		AF002994.
HNHFE69	5050	577244	1 - 329	15 - 343		
HNHFF08	5051	860229	1 - 685	15 - 699		AA506952, T52745, AI280574, AA832016, AI270177, AA831801, H81732, AA358086, M78131, F23264, AI554725, AI436330, AA320105, AA602906, AI249365, AA633424, AI568659, AW439703, N99245, AA054639, AI928890, AA730035, AW020150, AW151541, AI521525, AI362694, AA635433, AI298079, AI653525, AW006088, AW088130, AA809153, AI619987, AL046416, AW304580, AL040374, AW238712, AI056537, F07564, AA553394, AA622801, AI753672, AL040816, R70884, AI345497, AA932407, AA015948, AI610439, AA525331, AA650447, AI871913, R70883, AA525293, AA365980, AA508036, AI918419, AA811954, AI251576, AW407632, AA937809, AA351808, AL118925, AI754567, AW419389, AW102811, AI754105, AI358712, AI755214, AA743968, AI096874, AI686563, AI040273, AI306232, F00688, AA838091, AA806804, AW274191, AI609972, AI990666, AL041375, R87135, AI863279, AI635440, AA282951, AI419337, AI361090, F30310, AI479068, AW189113, AA378474, AA533054, AA834764, AA057522, AA594719, AA528744, AA525522, AI207422, AI421950, AL079734, AA454504, AL079339, Z82244, AC005338, AC020663, AL117355, AF091512,



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HNHFF21	5052	625613	1 - 326	15 - 340
HNHFF29	5053	576412	1 - 268	15 - 282
HNHFF56	5054	576432	1 - 434	15 - 448
HNHFG07	5055	953569	1 - 386	15 - 400
HNHFG11	5056	967255	1 - 316	15 - 330
HNHFG37	5057	658459	1 - 393	15 - 407
HNHFG94	5058	720292	1 - 389	15 - 403

HNHFH21	5059	575785	1 - 576	15 - 590	N28488.
HNHFH56	5060	575784	1 - 243	15 - 257	
HNHFH78	5061	773610	1 - 386	15 - 400	
HNHF169	5062	575747	1 - 128	15 - 142	
HNHF188	5063	575751	1 - 343	15 - 357	AC007226, U95743, AC006363, and AL022345.
HNHF195	5064	577328	1 - 434	15 - 448	
HNHF145	5065	720757	1 - 439	15 - 453	
HNHF167	5066	699523	1 - 444	15 - 458	AA293828, and H66294.
HNHF137	5067	576386	1 - 389	15 - 403	
HNHF177	5068	970770	1 - 440	15 - 454	R43540, R48276, R48377, R43540, H14811, H14844, H25270, R98805, H48383, H61221, N29968, W23460, W73630, W73678, W95886, AA031537, AA085279, AA166981, AA195032, AA195160, AA211848, AA252180, AA291950, AA470617, AA527697, AA527705, AA523619, AA610324, AA610375, AA631087, AA639486, AA662219, AA761630, AA769549, AA836835, AA857900, AA877434, AA887793, AA911923, AA919116, AI031861, AI088765, AI097438, AA242793, AA291420, AA434487, AA670443, AA680029, AA434391, AA707307, AA719146, AA723473, AA725011, AA780009, AA854072, AA854177, AA904890, AA927579, AI026017, AI026142, AI027032, AI039424, AI082533, AI092443, AI095580, D45614, AI306736, AI311850, AI344587, AI346859, AI401696, AI475602, AI491923, AI560607, AI561040, AI565775, AI497986, AI567445, AI582162, AI424489, AI127220, AI129847, AI131403, AI216030, AI218681, AI221771, AI240379, AI659547, AI538610, AI539637, AI275475, AI332813, AI349444, AI350915, AI589172, AI682495, AI684064, AI689701, AI763230, AI829821, AI831189, AI831933, AI870019, AI870152, AI888031, AI811628, AI914567, AI918439, AI921759, AI937559, AI952650, AI952779, AW004929, AW005538, and AW024659.
HNHFL48	5069	664588	1 - 294	15 - 308	AJ007751, AC010517, AJ007752, D29748, AJ130757, S67971, and AJ130755.
HNHFL82	5070	576428	1 - 386	15 - 400	AL021528.
HNHFM01	5071	916787	1 - 290	15 - 304	AL096757.
HNHFM32	5072	577331	1 - 346	15 - 360	
HNHFN30	5073	691083	1 - 398	15 - 412	
HNHFN52	5074	727258	1 - 216	15 - 230	
HNHFN95	5075	761672	1 - 316	15 - 330	
HNHFO45	5076	576408	1 - 351	15 - 365	
HNHFO48	5077	707311	1 - 624	15 - 638	H05570, and AC005146.
HNHFP09	5078	860013	1 - 299	15 - 313	AL031590.
HNHFP10	5079	964849	1 - 440	15 - 454	
HNHFQ01	5080	916773	1 - 338	15 - 352	
HNHFQ19	5081	418108	1 - 149	15 - 163	

HNHFQ30	5082	692807	1 - 272	15 - 286	
HNHFQ75	5083	766595	1 - 343	15 - 357	
HNHFQ88	5084	576398	1 - 436	15 - 450	AI420786, and AC005592.
HNHFQ92	5085	576400	1 - 139	15 - 153	
HNHFR12	5086	860003	1 - 303	15 - 317	
HNHFR22	5087	964716	1 - 430	15 - 444	AA640685, AA804925, AI289850, F29541, AA601195, AI471691, AA728937, AI133448, AC005722, AC004895, AC005529, AC005488, AF165926, AF109907, Z83822, AC005015, AC004882, AF207550, AC006285, AF033356, AC006071, AP000689, AB003151, AC002994, AC007688, AC006953, AI109798, AC005412, AC009247, AC006946, AI031311, AI096791, AC005837, Z95331, AC007263, AC004967, AC005089, AI031666, Z93017, AI135783, AC006449, AC006277, AI022328, AP000049, AP000116, Z95116, AC000353, AP000311, AC006538, Z83844, AC007216, AI035684, AC002369, AC006120, AC004905, AC006023, AF064861, AC002302, AC003043, AI078638, AI008718, AP000557, AD000091, AC005280, AC007546, AI021707, AI133246, AI035072, AC005206, AI049779, AP000036, AC005081, AC004150, AC000134, AC004383, AC005520, AP000343, AC007285, AI023575, AI135960, AI131016, Z98946, AC005667, AC004453, AC007151, AI035423, Z86090, AC004682, J02698, U73636, AI132777, AC005231, AC002996, AI021397, AP000352, AC005736, AI096701, AI022476, AC005180, AC005778, AP000031, AI009181, U82668, AC004228, AC005952, AC004859, Z84474, AC006430, AC004821, AC003950, AI031595, AC004985, U47924, U95742, Z98036, AC003670, AI031005, and AI049569.
HNHFR24	5088	577330	1 - 322	15 - 336	
HNHFR67	5089	751787	1 - 338	15 - 352	
HNHFS03	5090	924610	1 - 511	15 - 525	
HNHFS79	5091	734798	1 - 416	15 - 430	AC005747.
HNHFU09	5092	625726	1 - 433	15 - 447	AC002069.
HNHFU35	5093	707335	1 - 298	15 - 312	
HNHFU45	5094	920844	1 - 432	15 - 446	AI109758.
HNHFU57	5095	860002	1 - 435	15 - 449	AW304536, AI356440, AA102737, H29914, AA715173, AA715075, AA904211, R93919, AA314891, AW008169, AI433104, AA302661, AA541532, AI281561, AA338238, AI133514, AA568204, AA570740, AA483606, AI571538, AI249683, AI138329, AA338237, H68360, AI491765, AI189682, AA630854, AA206230, AA664604, AI355246, AW023111, AI336771, AW084967, AA493947, AI041375, H38769, AA491767, AA515939, AA714110, AA846923, H84412, AA626829, AI792529, AI054193, T90477, AA632765, AI609972, AA161492, AA857812, AA279919, AA493808, AI538236, AA297208, AC005412, AC006409, AI035461, AJ012008, AC005088, Z83844, Z95115, AC002351, U91321, AC005696, AC005529, AI049710, AC004084, AC004796, AF172277, AI133312, AC003070, AC006205, AI049569, AI031432,

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HNHFV16	5096	952376	1 - 360	15 - 374	AL022319.
HNHFV52	5097	576390	1 - 387	15 - 401	
HNHFV56	5098	724417	1 - 514	15 - 528	
HNHFV66	5099	860000	1 - 350	15 - 364	
HNHFV68	5100	925820	1 - 334	15 - 348	AA045668, T51787, and AJ752482.
HNHFV70	5101	757281	1 - 317	15 - 331	AA045947, AA367403, AC003976, AC005702, AC005562, and AC003958.
HNHFV08	5102	959476	1 - 406	15 - 420	AA075754, AA618286, AA295899, AA295893, AA774098, AA354695, AA859744, AA483141, AW327555, AA633892, AA340226, AA569448, AA834799, AF034176, AA376358, AI732911, AA177130, AA225634, AA825954, AA452325, AA730795, AA496268, T06805, F16409,

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HNHFW29	5103	663912	1 - 410	15 - 424	
HNHFX22	5104	674638	1 - 189	15 - 203	
HNHFX35	5105	668656	1 - 344	15 - 358	AC005519.
HNHFX56	5106	716628	1 - 402	15 - 416	
HNHFX68	5107	753045	1 - 96	15 - 110	AC004468.
HNHFX70	5108	756459	1 - 381	15 - 395	Z54072.
HNHFX89	5109	712347	1 - 413	15 - 427	

HNHFY21	5110	670946	1 - 408	15 - 422	
HNHFY95	5111	734764	1 - 363	15 - 377	
HNHGA24	5112	967093	1 - 433	15 - 447	
HNHGA33	5113	702461	1 - 189	15 - 203	AF095901, AC005971, and AC003006.
HNHGA46	5114	719073	1 - 359	15 - 373	AA579437, R98945, A1168274, A1092694, T68597, AW161893, AW438907, AA618172, A1085078, AA632695, H27102, AC007676, U91326, Z49154, AC005516, AP000066, Z98941, AL031685, AC004056, AC006449, AL031680, AC005921, Z84484, AC007559, M63796, AC002400, AL022476, AC002302, AF024533, AC006965, AC005940, AC005479, AL121655, AL035495, AP000349, AC005102, AL050307, AC003962, L44140, AC005156, AL139054, AC003689, AF001549, AC006544, AC005332, AC002565, AC006581, AL035086, AC005785, AC006076, AL031681, AL049709, AC006572, AC007637, AC005523, AC004584, AL009031, and AB017567.
HNHGB83	5115	781205	1 - 325	15 - 339	AA604326, AA483223, AA513850, AA486580, AA533036, AA548511, F25695, AA824655, AA127636, AA641199, AA568778, AL044438, AA601355, AA670468, AA481050, AA397572, AA486885, AA824654, AA368679, AA678443, M77868, AA081909, AA488249, N20967, AA346575, AA623002, AA577906, AA973803, AA446657, N22533, AA347114, AA906889, AA649722, AA720691, H86097, AA669840, AA858197, AA357552, AA503473, AA928904, T53128, AA341336, AA643469, AA490183, W96048, AA078691, AA653964, AA805860, T28708, AA740921, AA458736, AA702745, AA678436, AA059472, A1002796, AA678772, AA644538, AA810370, F35659, AA158301, AA788883, AA604854, AA134347, F09736, AA204718, R32415, AA319830, AA610420, AA602528, AA304977, R84296, AA838096, N20219, AA704643, AA325597, AA480790, AA235466, AA158328, AA330380, AA525151, T94817, AA825299, AA833792, AA053551, AA834755, AA678499, AA633094, AA552843, H96850, T16056, AA484153, AA664135, T55236, AA132914, AA702293, AA437161, AA630606, AA604107, AA629571, AA280632, AL134267, R97934, R84309, AA812433, AA630925, D57369, R65889, AA524809, AA526757, R92288, AA715263, R84303, H02877, W16581, AA603156, AA459873, A1648538, AA826793, AA347170, H11124, AA287640, AA608595, AA994578, AA639248, AA584749, H02135, N69316, T49241, AA434388, H79151, H80306, AL037050, AW069807, AA483780, AA143490, T67750, AA053635, AA172191, AA774184, AA190895, AA632548, T15897, AA515909, AA605032, AA167643, AW390062, AA494025, AA908857, AA524838, AA654761, AA846929, A1890096, AA405493, AA557854, AL275328, AA569167, A1251250, A1284881, AA521355, AA574110, AC006512, AF003529, AC002384, AF029308, AC004690, Z95124, Z95331, AF227510, AL031965, AC003973, AL049837, AC006560, AC006548, AFI30343, AC006511, AL136520, AC004075, AC003003, AL121823, AL031054, Z97206, AC004968, AC005191, AC005181, AC007372, Z68870, AP000507, AC007161, AC012083, AP000086, AC005690, AC008069, AC004006, Z83841, AC004614, AC005036, AB020868, AL133233, AL049562, AL109654, AC009286, AF070718, AP000166, AL121871,

					AC006052, AP000705, AB000880, AC004520, D86998, AB000882, AC005261, AC006383, AC004541, AC005875, AL049588, AC002038, AL110503, AC002536, AC005820, AC008173, AC004926, AL008734, AP000223, AL031114, AL008626, AC006459, AC007106, AC002467, AL030999, AF003528, AC005553, AF196970, AC006572, AL109985, AJ006997, AC004222, AL034369, AL117693, AL078640, D86999, AC007446, AL133224, AL031785, AF011889, AC010582, AC008014, AL033524, Z69923, AC004215, AC002302, AC005752, AL035252, AP000318, AC006137, AL121934, AC002978, AP000120, AC007380, AL031983, AL121767, Z82211, AL110292, AL008629, AC003990, AC002487, AC010170, AC005881, AP000431, AC004605, AC005150, AL096827, AC005486, AL031223, AL132641, AC006120, AC005550, AP000302, AP000350, U07000, AB023048, AP000511, Z78022, AP000114, AP000046, L43392, AC005040, AL020997, L49046, AC002418, AC004386, Z68192, AC007022, AP000501, U13056, AC007528, AC004820, AC006559, AL049557, Z83313, AC007966, AF112866, Z92844, U67274, AL034407, U20770, AL096767, AC002550, Z68289, AC005993, U40401, AC005988, AC000003, AL132800, AP000495, AF193806, X77859, AL133404, U95740, Y12508, L77570, AC007677, AC002538, Z92540, AB022537, AC003957, AC004559, AF029750, AC003043, AC005104, Z99495, AC002350, AC005911, AC003070, AF060568, AC004662, AC006365, U91326, U91322, Z93942, AJ009610, AC003071, D83657, AC005778, AF064863, AP000259, AC008119, AP001060, AC009336, U73633, AJ006995, AC006255, Z73900, M63796, AF042090, AC005531, AC004047, X62695, AB023052, AC004474, AC002369, AC003678, AC004964, AL021398, AC005610, AC006138, AC000052, AC005086, AC005280, AC007688, AP000300, AL109656, and AP000513.
HNHGB96	5116	784362	1 - 406	15 - 420	
HNHGC13	5117	927065	1 - 344	15 - 358	
HNHGC35	5118	707337	1 - 310	15 - 324	
HNHGC41	5119	711654	1 - 259	15 - 273	
HNHGC62	5120	733745	1 - 641	15 - 655	
HNHGD07	5121	953416	1 - 412	15 - 426	
					AI804902, AC006117, AC007421, and AF051976.
					H40460, T87587, T99479, T79930, T98889, R45850, and H40461.
					AI798767, AI762354, AA960878, AA994187, AI150216, AI203673, AW304455, AI669778, AI638227, AI629021, AI032379, AW206145, AI216900, AI652606, AI949596, AI200754, AI652758, AA365065, AA400904, AA775880, AA935607, AA628104, AA913740, AA682231, AA442250, and AA970252.
HNHGD14	5122	920149	1 - 425	15 - 439	
HNHGD50	5123	667930	1 - 341	15 - 355	
					F31867, AI250552, AI251034, AI254770, AI284543, AI054090, AI251284, AI251203, AI223626, AI246061, AI090334, AI251241, AW303098, AA502098, AI312533, AL135605, AW339422, AI798041, AW249541, AA491814, T99717, AA356310, T55707, AA746959, AA492114, AI249886, AA747480, AI358008, AC004778, AC007201, AL096791, Z93930, Z98200, AL009181, Z82208, AC005778, AL031848, AL109798, AL078476, AC006130, AC005841, AC007546, AL035681, AL049766, AL034379, AC005387, AC005776, AC007100, AC005837,

					AC007225, AF196779, AC005399, AL031666, AC003101, AL022313, AC004815, AC005231, AC006312, AC003043, AC004526, AC005632, AC004797, AC020663, AC005332, AC005796, AC004019, AC002073, AL022311, AC005538, AL080243, AL022326, AC006948, AJ246003, AC007227, AC005180, U34879, AC005225, AP000555, AC006208, AC007878, AC005899, AC005207, AC005529, AC003104, Z94056, AL022336, AC007308, AC003042, AL121658, AC007637, AC002470, AC006011, AL031735, AC005562, AL096701, AL132712, AC009509, AC004887, AL080242, AC002492, AC004596, AC018633, AC006536, AC007172, AC002117, AD000812, AL021977, AL031584, AC002543, AC003098, AC004150, AC005786, AP000502, AD000092, AF030876, AC005527, AL034549, AC007774, AC005175, AL022240, AC006449, AC007216, AC002425, Z99716, AC005291, AC005157, AC005288, AP000694, AL049760, AC002429, AC005911, AC005913, AF134726, Z49235, AP000117, U47924, AP000557, AC005081, AC005756, AC003957, AC002301, AL022322, AL132777, AL133448, AL049776, AC004560, AL021068, AC006973, AL034375, AL022163, AC003111, AC005703, AL049829, AC006021, AP001067, AP000050, AF047825, AP000313, AC004854, AL008582, AC005512, AL023553, AP000952, AC004765, Z84479, Z83840, AL049692, AC000134, AC000026, AC006511, AC004678, AC005003, AC005071, AL021707, AC003688, AC007376, D16561, AJ238413, AF111169, AL022238, AC004771, AC003108, AC002565, AL109827, AC005620, AC009247, Z93023, U63721, AC004216, Y18000, AC016025, AC004263, AC005193, AC016026, AC000052, AP000704, AC005602, AC002369, AC007792, AC006390, AC005089, AL050333, AC004447, AL035419, AF002991, AC002059, AL022237, AP000193, Z95113, AC005215, AL050337, AF205588, Z94161, AC006285, AC005829, AC006026, AC004813, Z92542, AC004814, AC007687, AC002985, AC004812, Z98051, AC009516, AC004383, AC002544, AL031432, Z95115, AC005222, Z98044, AC007226, Z85987, AL109952, AC004878, AC005218, AC006441, AL096775, Z69666, AP000049, AC004254, AC004400, AC006111, AL121655, AC002126, AF126403, AF129756, AC002044, U91325, Y10196, AC004805, and U95742.
HNHGD51	5124	934632	1 - 392	15 - 406	AC005043, and AL035417.
HNHGD68	5125	753053	1 - 393	15 - 407	
HNHGD84	5126	671077	1 - 414	15 - 428	AC005242.
HNHGE09	5127	939727	1 - 633	15 - 647	T03269, D58283, D80193, D59927, D80166, D80195, D51423, D59619, D80210, D51799, D80391, D80240, D80253, D80043, D80227, D59859, D80212, D80196, D80188, D80219, D80038, D80269, C14429, D59889, D81030, D80366, D59502, D57483, D80022, D59275, D80045, D59610, AW178893, D80378, D50979, D50995, D80024, D59787, D80241, D51097, C14014, C75259, D80164, C14331, D80134, AL905856, D59467, AW177440, C14389, C15076, AW179328, AW178775, AA305409, AW378532, D51060, AW352158, AW177501, AW177511, AW352117, D80949, D80168, AW178762, D58253, D51079, D51022, AW176467, AW375405, AW360811, AA305578, AW377671, AW366296, D80251, AW360844, AW360817, AW360834, D81026, AW375406, AW378534, D80248, AW179332, AW377672, AW179023, AW178905,



HNHGE27	5128	683432	1 - 359	15 - 373	AA514188, AW179220, AW352172, AW352171, D80522, AW377676, AW352170, AW177731, AW178907, AW179019, AW179024, AA514186, D80133, AW178906, AW177505, AW179020, AW178909, AW177456, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, C05695, D80132, AW179004, D80268, AW178914, AW178911, D80302, AW178774, D80439, D80247, T48593, AW367967, AW178983, AW177723, AW352174, AA033512, D51103, AW378533, D80157, AW367950, AW178986, D80314, A1535850, C06015, D45260, C14975, A1525913, A1525923, A62298, A62300, A132110, A84916, A67220, D89785, A78862, X67155, A25909, AR025207, D34614, D26022, D88547, Y17188, X82626, AR018138, AB012117, A85396, AR066482, Y12724, A44171, A85477, I19525, A86792, AF058696, X93549, AR008278, AB028859, AF135125, U87250, A94995, AR008443, I50126, I50132, I50128, I50133, D88507, AR066488, AR064240, A82595, AR016514, D50010, AR060138, A45456, I18367, A26615, AR052274, Y09669, AR060385, AB033111, AB002449, AR066487, A43192, A43190, AR038669, A30438, AR066490, D13509, AR060133, Y17187, AR008408, A63261, U87247, A70867, Z32749, AB023656, AR062872, U79457, AR016691, AR016690, U46128, X93535, and AR008382.
HNHGE43	5129	715304	1 - 315	15 - 329	AA488743, AA308092, AA676628, AL031311, AP000347, AP000346, AC005210, AC005839, AL031681, AC007227, AC005105, AC004139, AC007559, AL109799, U85195, AE000658, AL022302, Z95116, AL031671, AL034402, AC004010, AC005225, AC005519, AL031680, AL109963, AL021069, AC004920, AC003024, Z96811, and AC002544.
HNHGE64	5130	746605	1 - 303	15 - 317	
HNHGF14	5131	835984	1 - 419	15 - 433	
HNHGF21	5132	670956	1 - 399	15 - 413	AC002470, AL135745, AC002565, AC005015, AC005300, and AC002117.
HNHGF37	5133	708708	1 - 520	15 - 534	AL022097.
HNHGF45	5134	859852	1 - 372	15 - 386	
HNHGF46	5135	705128	1 - 411	15 - 425	W40172, AA129812, AA382562, AA057128, N44954, W93959, W96112, W65434, AA321463, R91613, AA010986, AA311729, AA456863, AA355485, AA047510, AA133759, T77131, T97680, W44481, Z60594, and AF191020.
HNHGF85	5136	761811	1 - 356	15 - 370	AA745297, A1707744, AW169038, A1570805, AL037777, AA528574, AA528503, R08192, AW304536, AW338042, H01243, A1538236, R99533, H60827, AA630122, W03330, AA434364, AC005089, AL049591, AL021391, AC005881, AC004129, AP000555, U52112, Z93241, AL021707, AF064861, AL024498, AC006080, AC003025, AF139813, AC005666, AC006277, AC005048, AF165926, AC003101, AC007371, AC005952, AL031668, AC005389, AL031276, AC005376, AC005826, AC006379, AC006948, AC005932, AP000243, AP000126, AP000204, AF047825, AC006241, AC005071, AC005736, AC005546, AF051769, AC007073, AC006023, AL035423, AL031602, AC003982, AL133312, AL049569, L44140, AC007934, AF024534, AP000279, AL031672, U95626, AL078584, AL022320, AC005624, AP000106, AP000038,

					AL008718, Z83826, AL035071, AC004996, Z83844, AC004595, AC004832, AC004017, AC004814, AC005225, AC005971, AC005786, Y16789, AP000689, AC002115, AL096817, AC005049, AC004084, AC009721, AC007327, AF196969, AC005519, AC004859, AP000557, M55987, AC007283, AC000353, AL022326, Z93023, AC005562, AC006275, AC003002, AB023049, AL031427, AC009516, AC004841, AP000045, AL035659, AL132712, AL034419, AL022237, X95887, AC005280, Z92845, AC007421, AC002288, AC002072, AC005482, AL031295, AC007792, AP000512, Z82248, AL109758, AC005572, AP000313, AC006029, AP000501, AP000556, AC004782, AC005399, AL035420, U91318, Z98044, AL133448, AC005841, Z97630, AL049760, Y14768, AC004849, AL009172, AL035405, AC005274, AL035587, Z93022, Z98304, AP000050, AC005255, AC006163, AC006141, AP000505, U95740, AL031281, AC004890, and AL035588.
HNHGF90	5137	730957	1 - 392	15 - 406	
HNHGF91	5138	750389	1 - 418	15 - 432	
HNHGG06	5139	935530	1 - 392	15 - 406	R02639, and R02523.
HNHGG73	5140	764446	1 - 253	15 - 267	
HNHGG76	5141	746607	1 - 246	15 - 260	AI648558, AW236342, AI824562, AA747472, AI697208, AL041706, H55914, AA515435, AA484187, AA649642, AA318652, AA515224, AW440976, AI358571, AI205126, AA483034, H55891, AA077817, AI281697, AI379719, AA017322, AA548137, AA41788, AI064729, F23279, AI216799, AI357551, AI354426, AI251002, W07122, AI291124, AA317170, AI053672, AW079241, AL039958, AI921296, AA514819, AI291268, F37169, AW265393, AI284640, AI537030, AA557686, AI473943, AW303876, AA663482, AI281881, F33121, AW274349, AA084070, AA632650, F36273, AI334443, AI471481, AA745410, AI937850, T63104, AA491762, AA470985, AA483234, AI564185, AW029526, AI133164, AI929531, AI364809, AA503258, AW303196, AW301350, AW338086, F18320, AI251021, AA664148, AW088058, AI252554, AL041733, AI749284, AW162049, AA325699, T06556, AA745582, AA350859, AL137954, AI091495, AI287651, AL079812, AW166815, AW028403, AI821279, AI446464, AW148792, AL079843, AW406162, AA664535, AI434695, AW419262, AA595782, AA825357, R91994, AI351698, AI499938, T08638, AW440299, AA365302, AI219406, T03772, AA533036, N75702, AI358813, AI567674, AA605274, AA252763, AF150152, AI357288, AI570212, AW249835, AW020992, AI312149, AI439210, AA613345, AA713815, T40077, AI434311, AW270270, AW406447, AI110770, AA470534, AW168342, AA177061, AI467919, AW104813, AI888518, AA657741, AA161095, AI890923, AW162489, AA680211, AI281903, AA679872, AI148277, AI279165, AI628288, AA521277, AL038474, AW079792, AW022379, AA652057, AI539563, AI439360, AI962050, AA347927, Z99716, AL049830, AC005323, AL031388, AC005696, AC007363, AC012627, Z98884, AC007036, AC004805, AC000004, Z98948, AP000054, AL110502, AC000066, AC004067, AL034545, AF064857, AP000548, AF044083, AL035411, AC005541, AC005844, AC003668, AC006501, AC006543, AL031681, AC005082, AC002543,

					<p>AJ010770, AC006160, AC004216, AC006946, AC002091, AC000085, AC007510, AL035446, Z97200, AC006596, AC006544, AC008079, U70984, AL034451, Z84487, AC007151, AC007539, AL022310, Z98051, AC006374, AP000506, AB014080, AC006502, AC004506, AC007051, AL133244, AL121595, AC005785, AF205588, AC006287, AL109984, AC005871, AC008268, AL031671, AC007091, AC011604, AL049613, AC004388, AC000073, AL135783, AL021307, AB000882, AC004694, AC004893, AC006582, AC002994, AL132994, AC004894, AC005084, AC006344, AL121578, AC006952, AC003664, AF196971, AC004020, AC004907, AL022160, AC007436, AC009411, AP000365, AC004917, AC006996, AF201337, U92032, AJ011930, Z95152, AC005826, AL031599, AP000008, AL096707, AL078624, AC004049, AC002524, AL033525, U66059, AC004171, AC003016, AC006379, AC006536, AC004636, AF188025, AC010722, AP000514, AC006120, AC003971, AC004745, AC002531, AC008498, AC007387, AC006026, AP000704, AL022161, AF124730, AC006111, AC010170, AC007488, AL121877, AP000965, AC002385, Z72001, AC007919, AL031054, AL008715, AL121823, AC005694, AC004486, AF123462, AL050341, AP000566, AC006515, AL022578, AC002422, AL136018, AL096861, AC009069, AP000115, AL049633, AC008372, AL049588, U72787, Z99758, AL031286, Z82216, Z83820, AC000114, AC005722, AC003035, AC004069, AC002480, AL109654, AL121757, AL031280, AC006046, AL035593, AC006552, AC009802, AL034406, AL049647, AL133500, Z82205, AL022069, AF035396, AL133289, AL031672, AC007225, AC007099, Y18000, AC005532, AP000350, AL050338, AL031122, AC004853, AL031431, AC006139, AC004673, AC006011, AC005527, AC006978, AC004053, AL024507, AC007157, AF027390, AC005821, AC007313, AC005900, AC006213, AP000122, Z99496, Z74696, AC005229, M87919, AC006262, AL096770, AF003627, AC003051, AC005828, AC002487, AC002564, AC016026, AC000120, AL022397, AC002458, AC007068, AC000389, AC000377, AC004924, AC008282, AC003029, AC004645, AL049835, AF118808, AC006050, AL078639, AC010200, AC007207, AC005740, AL096701, AL117344, AC003098, AL122023, AL080285, AC002426, AC004886, Z82210, AC008168, AC005250, AC005154, AL079305, AC002122, Z98754, and AL023280.</p>
HNHGG89	5142	772213	1 - 343	15 - 357	
HNHGG93	5143	792335	1 - 565	15 - 579	
HNHGG95	5144	760386	1 - 399	15 - 413	AC004894.
HNHGH02	5145	920147	1 - 520	15 - 534	
HNHGH20	5146	959499	1 - 391	15 - 405	
HNHGH42	5147	713036	1 - 418	15 - 432	<p>AA488395, AI580652, AW269488, H88666, AA491814, AA177061, AI499938, AI184226, AI376100, AI921649, AA581903, AW406659, AI589230, AW088202, AA448231, AA452563, AW238278, AW103758, AW261871, AW406162, AL119691, AI887483, AA503258, AA469451, AI859251, F29989, AW276827, AL046409, AI471543, F17555, AI889923, AI053790, AI567674, AI499181, AA503284, AI679045, AA493708, AL138265, AI345518, AA654979, AI471481,</p>

				<p>             AW265385, AI299050, AI510838, F32808, AA074130, AA649642, AW438643, AI371070,              AI287451, AW300625, AI890923, AA515051, H00934, AA100599, AA569471, AI358229,              AI249997, AI754955, AA482711, AI284640, AW193432, AW193265, AI344844, AI68846,              AI200051, AA133333, AI334443, AI744827, T28550, AI053672, AW276817, AI341664, H91305,              AI561255, AW029038, AA515905, AA634227, AI061334, AA372478, AI708009, AI281881,              AW162049, AI345654, AI343137, AI929531, AI613280, AI053429, AI224093, AA669840,              AI365988, AA457592, AW406755, AW080134, AW302013, H40410, AA613227, AI349850,              AA343007, AI350211, AA350859, AW338500, AW173651, AI679132, AI537955, AW088058,              AA228420, AI339850, AI469003, AI266576, AI375710, AI358571, AW303876, AA917683,              AA652523, AI370878, AI133636, AI431303, AW265393, AA133406, AI962050, AA825455,              AI270476, T07451, AW074059, AA507547, AI379719, AL041412, AW303196, AW339568,              AI286356, AW274349, AI283911, AI049634, AI356904, AI039790, AI475569, AI963720,              AI262909, N25296, AW338086, W95841, AW023270, AI564284, AI291268, AW166815,              AI291124, AA670468, AA714453, AA515224, AI871722, AA098993, AA468131, AI623563,              AW408717, AI619997, AI830390, AW440836, AW301350, AA130647, AI625244, AI251002,              AA364224, AI801591, AI048925, AI792287, AI282832, AI471462, AI270117, AI801600,              AA713815, AA493219, AI357551, AA579063, AA362573, AI917271, AI654529, AA452744,              AI091495, AA610491, AA806796, AA252763, AW022379, AI570261, F18974, AA702023,              AW168342, AW406447, AA630030, AA553465, AA126051, AA126035, H41319, AW102955,              AI453383, AI160582, AA679514, AI305547, AI219406, AW340844, W79504, AI368256,              AI689019, AW117750, AA664535, AI340453, AW089810, AA502155, AW104748, AA594145,              AI364020, R98967, AC002375, U18399, X55931, AC006271, AC005231, AL136504, AL031668,              AL096791, AL031680, AF015160, U14700, AC005037, AC006064, U18396, AF023460,              AF077058, Z68284, AC006132, U14719, AC005288, AC007435, AC005618, AC004974,              AC005520, AC004019, D83989, U67211, AF015170, X75335, AF015150, U18392, Z79422,              Z94721, U47924, AL035417, AF129756, Z31005, AC005043, U18387, AC010349, X53550,              AC007751, AC005696, AL035086, U14718, U14714, U14715, AC002981, U57005, AL109985,              AC004098, AL133246, AC004263, AL096701, AL133448, U18398, U57006, AF039907,              AF015158, AL021154, U57009, AL022724, U18394, S75201, AC005911, AC006312, U18391,              X55925, U18393, I51997, AF109907, U18390, X55932, X55922, AL135783, L48472, Z22650,              AF015149, AF001549, U57007, AF015166, AC006116, AC004000, AC007666, AC005776,              AC007092, AC004087, AC004876, S75337, AP000113, AC005670, AC007684, AC008082,              AP000504, AL031123, AC005913, Z81369, S77605, X55926, AL079295, Z93241, AC007421,              U18395, U57008, AP000568, AC003691, U14713, AC004030, AL121578, AL078593, AF017104,              AC004453, AF015153, AF207550, AC008071, AF015156, AF020503, AC005209, U67221,              AL022476, AF015167, AC005330, AL109798, AC004531, AC016831, U57004, AP000513,              AC002377, Z93023, AC004383, AC002126, AC005324, Z98257, AC006459, AC003684,           </p>
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HNHGI35	5148	707336	1 - 422	15 - 436	
HNHGI79	5149	775218	1 - 307	15 - 321	
HNHGI81	5150	576279	1 - 418	15 - 432	
HNHGI03	5151	968076	1 - 309	15 - 323	
HNHGI09	5152	625624	1 - 394	15 - 408	AA847508, AI040051, AI499954, AW337526, AA654874, F24728, AA541532, AA378489, AW407632, AA745628, R99076, AI653783, AI421755, AI915081, AW002831, AL045476, AI345123, F24745, AA059247, H86546, H85032, AA613624, AA017169, H91062, AI358557, N90460, AA804187, AI431513, AA640563, AA847427, AA862075, AI733523, AA747375, T51436, AI380617, AI032411, AI801479, AA626632, AI440037, R99144, Z93017, AF196779, AC005363, U02068, AC004841, AL023807, Z97183, AC006057, AL035681, D86995, AC004943, AC004796, AL008715, AC005102, Z82244, AF053356, AP000555, AP000512, AL049569, AL022476, AL009181, AP000115, AC005899, AC003108, AL031587, AC005393, AC004148, AC002551, AL022721, AL109952, AC006486, AF003626, AF134726, U95742, AC008372, AC005666, AC007537, Y18000, U02057, AC007216, AF207550, AC004000, L78810, AC005409, AC004531, AF196970, AC005071, U91323, AL035659, AC002472, AC004832, AC006312, AC005535, AC004590, AL050337, AL022328, Z98044, M84472, AC007363, AC007055, M89651, AF111168, AC005971, AF205588, AP000358, AC006505, AC006468, AL139054, AC000039, AL031228, AC008044, U37355, U37357, AL008718, AL034394, AL117694, AF075098, AC003110, AP001065, AP000359, AL031255, AC005746, Z97053, AC005081, AP000076, AC005412, AC003043, AC002430, Z85987, AP001053, AC004552, AL022315, AC005920, AC005996, AL109827, U34879, AC007637, AF047825, U96629, AC005529, AC007384, AF176815, U80460, AL049780, AC005377, AL031432, AB001523, AP000289, M30688, AC005225, AL034418, AC005911, AC006011, AC006597, AC004491, AC006254, AC007934,

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HNHGJ20	5153	668916	1 - 384	15 - 398	AL022341.
HNHGJ28	5154	686733	1 - 309	15 - 323	AA724689, AI699833, AA433894, AA314522, D25249, F29184, AA296881, AA326270, AI791913, AI792133, AI821714, AI611569, AI611598, AA663201, AI340641, AA501649, AI668679, AI734264, AA039512, AA063546, AA515728, T86545, AW407371, AI335995, AI821785, AA838190, AW304580, AA547947, AW029515, AA933776, AA039511, R44623, AI354388, AI700000, R57956, AI133566, AI420028, AA595499, AA169247, AA527838, AC006126, AC005081, AP000555, Z84469, AC005261, AC006538, AP000102, AC002316, AC004799, AC005409, AC005736, AL031584, AC006511, AC004812, AF045555, AC007227, AL096701, AC003101, AL133245, AC007364, AB023049, AC004386, Z85986, AC000353, AF109907, U91326, AC005004, AC004491, AC007011, AF196779, AC010205, Z95152, AC005071, AP000512, AC016026, AC005046, AC004876, AC004813, AL109939, Z84483, AL022312, U07563, AC004381, AC002369, AL022315, AC007842, AC004966, AC007536, AC005620, AC006084, AC006011, AC002037, AL049830, AC004253, AC005829, AL022165, AL008721, AC004150, AL133485, AC003007, AC002470, AC002425, AL031311, AL121655, AL008633, AC005037, AP000104, AL023807, AL008726, AC007707, AL021707, AL031594, AC002059, AC005800, AC005899, Z83840, AC004890, AL136295, Z95115, AC006960, AC005488, AP000558, AC005280, AL009179, AF053356, AC004031, AC004526, Z74739, AJ003147, AC006088, AB004907, AC005057, AL135744, AC003037, AL049839, AC004953, AC016025, AL049643, AC006449, AL008723, AP000353, AC005102, AC006071, AL022313, AC002347, Z93930, AC002544, AP000251, AC004030, AF165926, AC004765, AC006480, AC005786, AP000030, AP000211, AP000133, AL021579, AF047825, AC007225, AL133353, AP000690, AC005523, AC005598, AC005722, AC002073, Z98051, AF064861, Z84718, AC002301, AC005231, AC002400, AL122020, U47924, AC006210, AC004854, AL008582, AL049795, Z82215, AL049757, AC004858, AC004382, AC004531, AC009516, AC007057, AL117328, AC006468, AF196970, L44140, Z97989, U85195, AC004019, AC007731, AC004821,

					AC002404, Y18000, AL035450, AC007381, AL031432, AC004476, AC004560, AC005500, AC005696, AC006529, AC002418, AL109984, AC005088, AC005015, AE000658, AC005914, AC006486, AL122023, AC002430, AC005516, AL139054, AC004033, AC005632, AC005911, AL031255, AC007384, Z97054, AC000025, AC005018, AC006547, AC004583, AC007226, AC006312, AC004770, AL034420, AC004263, AL031577, U93305, Z98950, AL049712, M63796, AC005412, AP000356, AL137100, AC008498, AP000692, U95740, U89336, AL079342, AC003695, AC004983, AC005740, AC008045, AC002468, AL132800, AL008732, AC004882, and Z98752.
HNHGI39	5155	850088	1 - 456	15 - 470	
HNHGI65	5156	750269	1 - 405	15 - 419	
HNHGI81	5157	777958	1 - 616	15 - 630	
HNHGIK05	5158	935525	1 - 308	15 - 322	AF064862, and AF064865.
HNHGIK24	5159	783674	1 - 426	15 - 440	
HNHGIK70	5160	728593	1 - 409	15 - 423	AA633727, AL042361, AA429543, R54767, AI880143, W03215, AA317624, AA703958, AA703747, R96964, H80600, AA491063, AA601475, AA603184, AA412382, T66045, AA491139, AI214163, AA083243, AI880175, AA211922, AA393354, AW264118, AA077800, H29782, AC004987, AC004916, AL133216, AC006328, and AF109718.
HNHGN17	5161	663923	1 - 321	15 - 335	
HNHGO21	5162	670955	1 - 276	15 - 290	
HNHGO65	5163	750267	1 - 119	15 - 133	
HNHGO68	5164	732370	1 - 363	15 - 377	
HNHGP08	5165	859964	1 - 106	15 - 120	
HNHGP31	5166	698047	1 - 528	15 - 542	
HNHGP32	5167	699292	1 - 434	15 - 448	
HNHGP40	5168	916551	1 - 428	15 - 442	
HNHGP73	5169	934446	1 - 865	15 - 879	F24281, AC005180, AC004178, AL035542, AL035086, Z95114, AP000305, AC005324, AP000047, AP000115, AL030996, and AL109865.
HNHGP83	5170	780328	1 - 546	15 - 560	
HNHGO02	5171	920146	1 - 433	15 - 447	
HNHGO25	5172	678151	1 - 434	15 - 448	
HNHGO28	5173	859965	1 - 433	15 - 447	
HNHGO49	5174	573340	1 - 459	15 - 473	AC005191.
HNHGO79	5175	562748	1 - 1013	15 - 1027	AI362442, AW131356, AA533545, AW023111, AA714110, AI251429, AA947369, AI921296, AI338117, AI926706, AA610233, AL109827, AC005189, Z85987, AL049636, AP000096, AL133245, AC005082, AC004013, AC005071, AC005324, AC005484, Z84480, AL023575, AC004797, AP000240, AJ010770, AC005102, L44140, AL031667, AC004149, AC004647,

					Z83838, AC002472, AC007566, AC003664, AF064861, AF196779, AC005225, Z99716, AC004087, Z84476, AC004655, AC005939, AC004791, AL121653, AC005736, AC002350, AL035405, AC005488, AC005089, AL078581, AC005057, AL008631, U95742, AC005512, AP000557, AC006965, AC006511, Z98048, AC007216, AC005031, AC004477, AC005231, AC009248, AC007666, AL049766, AL136295, AC005295, AC002558, AC005291, AP000502, AC003678, AC004526, AC004019, AL096761, AC007686, AF003626, AL022316, Z82214, AL023553, AC006960, AL035398, AC005920, AC002041, AC005520, AC005412, AC005971, AC003101, AL139054, AL024498, AC004000, AC000004, AF134726, AC005778, AF001549, Z98304, AL022334, AC007565, AL031730, AC004656, AC003690, AC005529, X55448, AC006974, AC000052, U80017, AC002991, AC006064, AC006077, AC004686, AC009516, AC005015, AL031005, AC006597, AC004805, AL109754, AL033527, AC005722, AL035458, AC002477, and AC002400.
HNHGR35	5176	698501	1 - 374	15 - 388	
HNHGR43	5177	918711	1 - 330	15 - 344	
HNHGS34	5178	706671	1 - 422	15 - 436	
HNHGT37	5179	708706	1 - 276	15 - 290	Z68885, and AL117391.
HNHGT51	5180	859962	1 - 354	15 - 368	
HNHGT64	5181	725710	1 - 346	15 - 360	
HNHGT74	5182	765602	1 - 433	15 - 447	
HNHGU19	5183	668693	1 - 407	15 - 421	
					AA985391, AW007854, AI821306, AA749351, AI159836, AW189113, AC005726, Z86090, AC005088, AF001549, AC007240, AC005562, AF030453, AC002425, AL033527, AL080243, AC005089, AP000066, Z85987, AL022165, AC004882, AC008044, AC004953, AP000347, AC008124, AC005969, AC003950, AC008040, AP000249, AP000132, AD000684, U91322, AL022336, AC007425, AL035072, AC002302, Z75407, AL110502, AC005102, AJ251973, Z93023, AL049576, AC006111, AC007192, AC004876, AF067844, AL031295, AL008726, AC004585, AL021528, AC003071, AC009731, Z78730, AC002352, AC005399, AL022238, AC005231, AC010170, AP000501, AC002554, AC007263, and Z93017.
HNHGU41	5184	791822	1 - 487	15 - 501	
HNHGU44	5185	716634	1 - 443	15 - 457	
HNHGU84	5186	783041	1 - 44	15 - 58	
HNHGU89	5187	761837	1 - 434	15 - 448	
HNHGV18	5188	666473	1 - 391	15 - 405	
HNHGV22	5189	674653	1 - 345	15 - 359	
HNHGV29	5190	421819	1 - 310	15 - 324	AL020994.
HNHGV45	5191	754053	1 - 414	15 - 428	
HNHGV91	5192	706695	1 - 388	15 - 402	AL022068.



HNHGX33	5193	496224	1 - 315	15 - 329	AP000271, AP000104, and AF042089.
HNHGX40	5194	687120	1 - 344	15 - 358	
HNHGX41	5195	711657	1 - 650	15 - 664	
HNHGX52	5196	727175	1 - 425	15 - 439	
HNHGX55	5197	683523	1 - 296	15 - 310	
HNHGX83	5198	781196	1 - 550	15 - 564	AC006079.
HNHGY13	5199	657253	1 - 397	15 - 411	AL031732.
HNHGY17	5200	663921	1 - 405	15 - 419	
HNHGY18	5201	859951	1 - 409	15 - 423	
HNHGY19	5202	835531	1 - 422	15 - 436	
HNHGY26	5203	859949	1 - 438	15 - 452	
HNHGY29	5204	690666	1 - 429	15 - 443	L34981, Z68275, AL117391, and L33995.
HNHGY42	5205	713797	1 - 409	15 - 423	
HNHGY47	5206	720360	1 - 400	15 - 414	T02826.
HNHGY79	5207	775209	1 - 405	15 - 419	
HNHGY86	5208	785516	1 - 238	15 - 252	
HNHGY91	5209	840129	1 - 419	15 - 433	
HNHGX36	5210	708131	1 - 71	15 - 85	
HNHGX63	5211	742594	1 - 522	15 - 536	
HNHHA21	5212	496227	1 - 374	15 - 388	
HNHHA32	5213	669915	1 - 328	15 - 342	AC004819.
HNHHA37	5214	708709	1 - 188	15 - 202	
HNHHA68	5215	753047	1 - 613	15 - 627	
HNHHA91	5216	790198	1 - 271	15 - 285	
HNHHA11	5217	964993	1 - 147	15 - 161	
HNHHA12	5218	970719	1 - 363	15 - 377	AL136297.
HNHHA24	5219	677224	1 - 351	15 - 365	AW088875, AW090733, AW089149, AI241940, AI364268, R41807, H06383, AW016452, AA598689, AI863108, AA599060, AI091148, AI693507, AI424991, and Z38240.
HNHHA64	5220	702697	1 - 766	15 - 780	N90568, AI554312, AP000365, and AP000548.
HNHHA12	5221	967088	1 - 290	15 - 304	
HNHHA17	5222	860117	1 - 318	15 - 332	
HNHHA29	5223	713800	1 - 359	15 - 373	AA663387, and AA679164.
HNHHA33	5224	699291	1 - 172	15 - 186	AL080239.
HNHHA36	5225	707340	1 - 218	15 - 232	
HNHHA46	5226	719068	1 - 240	15 - 254	
HNHHA58	5227	736069	1 - 227	15 - 241	

HNHHC83	5228	781197	1 - 425	15 - 439	
HNHHD35	5229	707338	1 - 423	15 - 437	
HNHHD61	5230	741837	1 - 405	15 - 419	
HNHHD67	5231	751663	1 - 305	15 - 319	
HNHHD82	5232	779893	1 - 419	15 - 433	
HNHHE07	5233	953408	1 - 364	15 - 378	
HNHHE48	5234	630223	1 - 307	15 - 321	
HNHHE63	5235	745100	1 - 281	15 - 295	
HNHHE80	5236	774041	1 - 301	15 - 315	AL079342.
HNHHF01	5237	916546	1 - 306	15 - 320	
HNHHF33	5238	698502	1 - 249	15 - 263	
HNHHF51	5239	698490	1 - 384	15 - 398	
HNHHF56	5240	496204	1 - 349	15 - 363	AC006427.
HNHHF58	5241	859946	1 - 419	15 - 433	
HNHHF63	5242	745095	1 - 361	15 - 375	
HNHHF79	5243	775205	1 - 421	15 - 435	<p>AL287766, AI124798, AA535216, AA715173, AA715075, AA829056, H50970, AI783911, AI560085, AI583532, AI754286, AA350886, AA598731, AW438850, AW438662, AW302048, AA568314, AA828844, Z97054, AC005874, AF134471, U96629, AL024507, AC007056, AP000352, D87675, AL109798, AC009510, AL133500, AC009946, AC002302, AL022726, AL034549, AC005089, AL049569, U95742, AC005488, AP000511, AC007216, AC007199, AC005037, AC012085, AF001550, AF205588, AL008721, AP000108, AP000040, AC004554, AL034548, AP000030, AC008372, AP000116, AC003051, AC005899, AC006449, AP000089, AC010209, AC006312, AC004522, AL109758, AC007151, AC003665, AC004797, AC009516, AC016027, U63630, AC006079, AL031427, AC002492, AC004927, AF030453, AC016830, AC008072, AC005088, AC005377, Z83844, AC007637, AL035652, Z82194, AC007450, AC002477, AC006014, AC004983, AC004895, AC002463, AC003007, AC000134, Z85986, AC002476, AP000501, AC005952, AC002352, AL139054, AF091512, AC004686, AL035420, AP000101, AL133245, AC007314, AC008394, AF053356, AF124731, AL132642, AC004675, AC004662, AC005871, U91321, AE000658, AC005695, AL031737, AP000115, AL022302, AC007763, AC006013, AC003687, AC005191, Z95114, AC005632, AC003036, AC007227, AP000694, AC004638, AP000952, AF195658, AF088219, AC004834, AL031281, AC007283, AC005484, AC007226, AC005224, AL031985, AC004966, AC006536, AC004765, AC002554, AP000085, AC005187, AC004796, AC005829, AC005921, AC004031, AC007198, AF067844, AC005972, AC006059, AC006006, AC004777, AC005911, AC004817, AC010206, AF106564, AC005288, AC005553, AC003668, AC020663, AC008044, AC004876, AL022400, AC005520, AC005969, AC006571, Z82215, AL021878, AF118808, AC006509, AJ003147, Z95152,</p>

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HNHHF96	5244	796402	1 - 315	15 - 329	
HNHHG47	5245	720361	1 - 300	15 - 314	
HNHHG50	5246	724411	1 - 399	15 - 413	
HNHHG65	5247	750266	1 - 237	15 - 251	
HNHHH13	5248	657251	1 - 254	15 - 268	
HNHHH42	5249	713796	1 - 357	15 - 371	
HNHHH57	5250	734793	1 - 382	15 - 396	AL678676, AL821937, AL754286, W45073, H05449, C75526, AL287259, C75403, AF001549, AC006101, AC006111, AC005736, AL031230, AC004703, AC005399, AC006449, AC007731, Z93023, AC005500, AL022476, AC005576, AC004030, AL132777, U62293, U63721, AC004878, AC006515, AL024498, AC003109, AC007564, Z95114, AC005089, AC006130, AC003962, AL031228, AC005037, AC005180, AL049694, AL049830, AC005829, AL133500, AC006312, AC005288, Z93930, AC005537, AC004889, AC003012, U91318, AC004887, AC007384, AL022336, AL049776, AC004895, AL139054, AL121603, AP000133, AF111168, AL035086, AC005071, AJ246003, AC006960, AL121658, AC004832, AF003528, AP000512, AF031076, AC004859, L44140, AC006241, AC006030, AF067844, AC005015, AL080243, AC005914, AC002316, AF118808, AL020997, AC005520, AL021391, AP000300, AF031078, AL121653, AC005562, AL031432, AF030876, AC005911, AL022721, AL024507, AP000694, AF064861, AC004491, AC005088, AL079342, AC005206, AP000355, AC005280, AF205588, AL031295, AC007363, AC005412, AC005094, AP000045, AP000113, AP000116, AC004216, AC004408, AC005667, AC005516, AL008718, AL023284, AC004638, AP000555, AC007057, AL049872, AL031905, AC005358, AC006417, AC006017, AC005971, AC006071, AC004098, AC004967, and AL133445.
HNHHI10	5251	964659	1 - 227	15 - 241	
HNHHI28	5252	859941	1 - 415	15 - 429	Z97205.
HNHHI34	5253	706699	1 - 400	15 - 414	AL109657.
HNHHI36	5254	708132	1 - 427	15 - 441	AL580362, AA676819, AA677954, AI831913, AI628458, and AL031123.

HNHHI65	5255	750263	1 - 374	15 - 388	<p>AW238278, AL048925, AA454177, AW023672, AA493708, AL119691, AA101689, N23896, AI567076, AA515909, R24887, AI801482, AI246796, AA579179, AI281881, AW407578, AW341900, AW270270, AA503473, AI371249, AA613232, AI733856, AW062724, AW167372, AW131249, AW419262, AA630362, AW072587, AA507824, AI860020, AI061313, AI355206, AA559241, AI184226, AA483223, AA774780, AA098993, AA720702, AA578481, AI589230, AA587991, AA642060, AI056177, AI279417, F34498, AI279037, AI933714, AI148277, AI733755, AA326441, AA614163, AA613345, AA446657, AW162489, AA805846, AA719073, R77905, AA847499, AW406162, AL120687, AL122023, AC007676, AL021154, AC007684, AC006285, AP000556, AC004167, AC006480, AL022313, AL049553, AC012627, AC006538, AC004526, Z15025, AL121757, AL121603, AL133371, AC002070, AL035089, AL096791, AC006312, AC000026, AL035079, AC005358, AC003029, AC004638, Z95152, AC002059, AL031667, AC005736, AC005089, AC007537, AC003046, AC000353, AL020997, Z74739, AC004020, AC007055, AC004817, AL008718, AP000151, AP000090, AL109628, AC007226, AC007277, AJ003147, Z75887, AP001038, AL008583, AC000003, AC002525, AL135744, AL021808, AP000962, AL035249, AC005667, AC007066, AC007546, AL049713, U07563, AL049776, AC006511, AC004583, AP000134, AP000212, AC005102, AC005071, AC005940, AL031431, AC005520, U62317, AC005971, AL021392, AC005164, AC005921, AC004024, AC001070, AC005375, AC007014, L78833, AL080317, AP000260, AL035458, AC005288, AC005808, AL049636, X16873, AB023049, AC005562, AL008582, AC005411, AL049830, AC000090, U95740, AC005548, AL080242, AC006006, AF196969, AL035659, AF053356, AP000281, AC000081, AC006241, AC005081, AC004991, AC004598, AC004019, AC007191, AF001550, AL035450, AC005015, AC005837, AF165926, AC005409, D87675, AC004675, AC006077, AC002544, AC007993, Z93017, AP000252, Z83843, AP000036, AC004605, AP000039, AL031733, AC002310, AF196972, AC005839, AF111168, AC005527, AP000302, AC002365, AC006515, AL031390, L78751, AL031673, AC005694, AL109865, AP000557, AC007021, AC008115, AF088219, AC007227, AC002288, AC007371, AC006252, AC003682, AC005585, AC004875, Z99755, AC004887, AC004655, AC006548, AC005193, AC006013, AL035420, AC005484, AC002470, AC004386, AC006441, AC004913, AL132712, AL022318, AC004079, AC005479, AC006539, AL080243, AL031296, AC006251, AL022320, AC002565, AC004878, AC003982, AL031282, AP000501, AB003151, AL121658, AF139813, AP000115, Z85996, AP001053, AC007664, AF031078, AC000379, AC007917, AL034549, AC007510, AC004021, AC003081, AL021918, AC005913, AF134726, AC004408, AF030876, AC004381, AC005046, AC006115, AC006984, AC007292, AC002036, AC008101, AC004112, AC003663, AC002119, AC006130, AC005291, AC006101, AC006315, U85195, AC009044, AC005914, AF003626, AL021807, AF124523, AC005202, AC004797, AC002477, AP001054, AL049539, AP000356, AC016027, AC006139, AC002395, AC005529, AC005841, AC004972, AC005535, AL031589, AL034343, AC005284, AL022329, and AJ246003.</p>
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HNHHI72	5256	510619	1 - 716	15 - 730	AA434086.
HNHHK06	5257	935517	1 - 418	15 - 432	AC005280, AL109628, AC006006, and AC004686.
HNHHK39	5258	937598	1 - 400	15 - 414	
HNHHK46	5259	718081	1 - 435	15 - 449	
HNHHK62	5260	741835	1 - 214	15 - 228	
HNHHK74	5261	765601	1 - 324	15 - 338	
HNHHK84	5262	781980	1 - 358	15 - 372	
HNHHK93	5263	792326	1 - 548	15 - 562	T12412, Z73967, and AL031985.
HNHHL22	5264	674617	1 - 321	15 - 335	
HNHHL70	5265	757201	1 - 339	15 - 353	
HNHHL74	5266	765598	1 - 212	15 - 226	AA657808, AA742850, AC006561, AC004751, AL021367, and AC005060.
HNHHL92	5267	756587	1 - 249	15 - 263	AC002288, AC002350, AC005076, AC007052, and AL049569.
HNHHM10	5268	964656	1 - 324	15 - 338	
HNHHM17	5269	661964	1 - 153	15 - 167	
HNHHM25	5270	678144	1 - 272	15 - 286	
HNHHM28	5271	575451	1 - 450	15 - 464	AI860558, AI963420, AI683827, AA342712, H74211, AA497013, AA342852, H73133, AA587516, H91062, AL120897, AA176978, AA847499, AA808173, AL243789, AL284045, AA477103, AL216799, AI471691, F09180, AA653618, AA488746, AA491882, T06828, AA224902, AI357288, AC005899, AC002492, AC009247, D87675, Z95152, AC004257, AL031282, AC009516, AC005779, AL022323, Z98036, AC003684, AC002394, AC005399, Z83840, AC007664, AC007263, AC004491, AF111168, AJ006996, AC004887, AC005736, AC002404, AL031428, AC005632, AC006023, AC002119, AC006538, AC005914, AC004024, AC003109, AP000356, Z93016, AJ246003, AP000097, AC006973, AC006111, AL122020, AC007371, AL021394, AC006116, AL050348, AC003029, AC004797, AL049869, AC005209, AC007546, AL022326, AL008582, AL078477, AL049776, AC006312, AC006285, AC005907, AC002350, AC007225, AC004019, AL035683, U95742, AC006487, AL121655, U91326, AC006064, AC006120, AC005067, AP000557, AP000011, AL096791, Z69917, AC004827, AC005785, AC005562, AC007731, AC004890, AC003957, AC006014, AC005089, AC000393, AC007216, AC004668, Z95114, AC004686, AL008629, AC002546, AC003663, AC005324, AF200465, AP000505, AC004148, AC006480, AD000092, AC005962, AL034379, Z15025, AL031577, AC004675, AL009181, AL133243, AP000201, AC006468, U91318, AC007748, AL031311, AC005822, AL133448, Z86090, AL109654, AC005411, AL050307, AF129756, AL008729, AL021807, AC005306, AF205588, AL121658, AC006360, AC000134, AC007052, Z68756, AC000052, AC004999, AC004819, AL031594, U80017, AC004771, AC006050, AL078634, AC004552, AL049830, AC004938, AC004757, AC004905, AL049759, AC004448, Z70280, AF042484, AL079340, AC007192, AC005480, AL109628, AC005821, AF088219.

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HNNHM35	5272	706667	1 - 320	15 - 334		Z93021, AC007446, and AC006314.
HNNHM37	5273	708715	1 - 147	15 - 161		
HNNHM52	5274	727166	1 - 290	15 - 304		
HNNHM55	5275	694373	1 - 528	15 - 542		AA082778, AI708218, and AP001058.
HNNHM70	5276	757202	1 - 245	15 - 259		
HNNHM80	5277	880776	1 - 319	15 - 333		
HNNHM03	5278	920129	1 - 452	15 - 466		
HNNHM07	5279	953393	1 - 347	15 - 361		H74218, AW023111, AA936718, AA364006, AI440117, H29914, AA581927, AA523695, AI266028, AA486542, AA788592, AI493583, AA018923, AW304536, AI310464, AA772704, H73902, AA502207, AA507684, AI912401, AA610233, AI368732, AI133246, AI117344, AC004491, AL031659, AL049631, AC003071, AC005303, AL035455, Z98749, AL022396, AC005823, AL031904, AC004686, AC004976, AL035496, AP000257, Z82176, AC002126, AC003684, AL031311, AC018769, AC007066, AL118516, AP000098, AC007878, AL049569, AC006509, AC006449, AC005940, AC005082, AC003029, AP000556, AL078581, AC002470, Z93241, AL080243, Z85996, AL135744, AC004622, AC004883, AC006581, AC007687, AC020663, AL121653, AC005005, AC004815, AP000194, U91321, Z98304, AC005057, AL133243, AC005874, AF134471, Z84476, AF124523, AC004983, AL139054, AP000555, AC004991, Z83844, AC009247, AC005089, U96629, AC009509, AC002477, AP000022, AC007450, AL022398, Z84474, AF196971, AL031673, AC005914, AF047825, Z93784, AC004525, AC004033, AL022324, AL022323, AP000163, AL049843, AC004967, AC003007, AC007919, AC005231, AC004134, AL034420, AC002040, AC007773, AL121825, AC007637, AL049776, AC002045, AC008040, AC007541, AC006236, AC007371, AC002300, AP000115, AC006077, U80017, U96409, AC002301, AL035457, L44140, AC005274, AC006205, AC005377, AD000092, AC004878, AC005632, AC007731, AC005829, AC004859, AC005031, AP000113, AP000045, AC004834, Z82215, AC006455, AF111168, AC006312, AC008033, AL049709, AC005899, AC002072, AC005378, AL031587, AL031291, AL031230, M55987, AL035086, AL022318, AL049849, AC010206, U29874, AC007051, AL021391, AC000035, AL049869, M89651, AC005412, AC005666, AF038458, AC007386, AC003051, AF036405, AC004922, AC005102, AC004914, Z83838, AC004408, AL109865, AL031432, AC006388, AC002395, AL031680, AC004813, AP000966, AF165926, AC006071, AP000313, AF053356, AC004382,

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HNNHN11	5280	964657	1 - 337	15 - 351	
HNNHN19	5281	668681	1 - 333	15 - 347	
HNNHN31	5282	698035	1 - 104	15 - 118	
HNNHN62	5283	745700	1 - 312	15 - 326	
HNNHN93	5284	751659	1 - 345	15 - 359	AI733700, AI733701, AI191504, AI191500, AI792423, and AI761827.
HNNHO08	5285	953398	1 - 339	15 - 353	AL049845.
HNNHO15	5286	424836	1 - 331	15 - 345	AA345594, AI884861, AA724224, AA225100, R76290, AI671077, AA452569, AA808847, F34170, AA344768, AI537800, M78137, T94072, AA857812, AW265688, AI300818, AI310992, AA358258, H78034, AI469392, H72642, AI648514, AA668475, R06740, AA078384, AA679353, AI469140, AI199816, H44537, AI039057, AA196552, R96373, AA020882, AA313075, AA846923, AA809089, AA856815, R01209, AI419337, AI361090, AA677848, AA321010, AA705075, T08386, AL047645, AI288033, AI421950, AI368873, AA354324, AI890971, AI205783, AI859906, R70884, AW089625, AI088127, AW026305, AI285493, AA938390, AI682727, AA584862, AA630122, AI255004, AI255015, AA219349, AA230075, AA604515, T07779, AA581525, AI624800, AI052194, AI570805, AA581927, R70883, AA339749, AI037907, AA992610, AW337992, AA112924, AI538236, AA772704, AA838192, AA325742, AA324088, AW019964, AA468975, AA326330, AA093114, AI253376, AW192402, AA458534, AA197019, AI905770, AI493583, AA515631, AA629888, AI751753, AI613465, AA156551, AI678812, AI280574, AA890060, AI860535, AI889426, R32162, AI376454, H38769, AI734155, AP000473, AC006236, AC008975, AC007556, AC005553, AL031291, AL035405, AC007546, AC007684, AL133500, AL034421, AC004829, AC007270, AL049569, AL049643, AC004655, AC002310, AL031284, AP000462, AC022517, AF060568, AB017654, AC006930, U82668, U73169, AC006323, AC004893, AL132668, AL049838, AL008721, AC004983, Y10196, AC004067, AC004915, AC004878, AC006014, AC005488, AL049709, U52112, AC004531, AC004601, AC005858, AL008712, AC005288, AC007686, AF111169, AC004230, AC004973, AL033375, AF030453, AC005088, AC006480, AP000699, AL031728, AC005005, AC005863, AP000501, AL078638, AP000227, AP000087, AL078581, AC005061, AC004941, AC005344, AL031589, U34879, AC004084, AL022398, AC003108, AL035464, AJ010598, AL121578, AC010168, AC005036, AC005808, AC005972, AF118808, AC004143, AL031905, AC006262, Z85987, Z95115, AC004844, AL096791, AC007263, AC004099, AC009509, AL034429, AC005480, AF042091, Z97053, AF134726, AC004216, AC006241, AL049563, AC005684, AP000694,

HNHHO49	5287	722991	1 - 340	15 - 354	AL079342, AC005377, AL031848, AC004783, AC005746, AC005587, AC007372, AC005953, AC002565, AC002551, AC006121, AC007055, AC005071, AL049837, AL122023, AC003690, AL009181, AL031659, AL034548, AL008734, AC002126, AC005231, AL034420, AC003665, AF126403, AL121877, AC005899, AC007066, AC005332, X71402, X95887, AC005086, AL008720, AD000812, Z82171, Z73964, U15177, AC005619, AL035465, X55448, AP000268, AC008150, AF157623, AC007199, AP000103, AP000033, AC000085, AL109938, AL035443, AL031000, AC004966, AL031587, AC004033, AL022162, AC004025, AL022318, Z95114, AL022319, L44140, AC002041, AC004590, AL139165, AC008041, AC006203, AC004988, AC005752, D84401, AP000241, AP000201, AC005004, AC005476, AF124731, AP000097, Z94056, Z92542, AC005585, AC004832, AC006312, AC006211, AC005157, AL034549, AC003007, AL035690, AC005099, AC004834, AL049795, AL022326, AC004552, AC006285, AC008273, AF001550, AC007731, AC005500, AL031733, AL139054, AC006948, AC001234, AP001066, AL050348, AP001065, Z93020, AC000378, AP000555, Z84487, S79836, U11297, AC006512, Z94802, AP000310, AC004985, Z49862, AC002306, AC000381, AL109801, AL023694, AL021546, AL022333, AP000116, AP000502, AL021069, AC012627, AL009051, and AL023553.
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	5288	727167	1 - 325	15 - 339	
	5289	774038	1 - 311	15 - 325	
	5290	920120	1 - 329	15 - 343	
HNHHO16	5291	935501	1 - 300	15 - 314	
	5292	661962	1 - 343	15 - 357	AC005596.



HNHHR04	5293	935502	1 - 341	15 - 355	
HNHHR46	5294	720358	1 - 334	15 - 348	
HNHHR61	5295	741830	1 - 311	15 - 325	AL022396.
HNHHR93	5296	775194	1 - 399	15 - 413	
HNHHS46	5297	950186	1 - 671	15 - 685	AA553367, AW452948, AA828734, and AI912090.
HNHHS74	5298	765584	1 - 408	15 - 422	AA586573, AC005036, AL021026, AC003951, AL034551, Z83820, AC002463, Z68325, AC004062, AC004949, and AP000082.
HNHHS76	5299	788913	1 - 300	15 - 314	AI541356, R29657, AA585098, T18597, AA585325, R45895, Z32822, AA585101, D53161, R28735, R29445, D57491, C15406, AI557740, Z28355, D59751, AA585155, AI557262, AI557864, R28892, D61185, Z32887, C15069, AI526140, AI541365, AI525500, AA170832, AA585439, R28965, D59436, AA585378, AA585329, R29218, D60844, AI526184, AI526078, AI557731, AA585476, D60765, D54897, R28967, R28895, AI557727, AI541205, AI541535, AI546971, C16315, AI525556, AI525316, AI541383, AA283326, AI541517, AI547250, AI546875, AI557763, D61254, AI557734, D53472, AI546999, AI526016, AI557787, C16293, AI541013, AI547039, AI557807, D55233, AI525306, D53447, C16300, AI541374, C16294, C15120, AI557084, D52835, AA585356, AI524945, AI541346, C16292, AI557718, AI546945, AI525431, AI557155, AI547196, C15762, AI557408, AI526191, AI557758, C16305, AI541523, Z30131, R29179, AI525339, AI541034, AI526194, C15737, AI557809, AI546921, AI541307, AI546996, AI540967, AI546891, AI547006, AI540903, AI557602, AI540974, D60730, C16296, AI526109, Z33559, R29177, AI525320, AI557279, AI547202, AI526176, D57186, AI541321, AA585453, AI526024, R29262, AI557808, AI526112, R29172, AI526158, D51433, C14208, AI541527, AI535639, AI535660, AI536138, D54850, AA585430, AI546829, AI557533, AI526113, AI541510, C16290, AI525856, AI557039, AI526195, D59458, AI556967, T19407, AI547137, AI526073, AI526180, AI557264, AI546831, T41289, Z36724, AI541422, AI525656, AI526117, AA174170, AI525332, AI526187, AI525286, AA514191, AA585117, AI541515, AI547189, AJ239433, AI540920, T41329, AI541492, AI524904, AI524890, AI557799, AI524891, AI546855, AI541027, AI541345, AI557041, AI557238, C14322, AI557852, AI546828, AI541506, AI541415, AI557082, AA585434, AI526205, AI557786, C14391, AI541402, AI525114, AA585440, AI546901, AI557317, AI557285, C14723, AI525168, AI526146, AC005913, AR038762, AR038855, AR062871, A25909, Y09813, X82786, Z32836, AR054723, AL021395, X81969, AJ244005, Y16359, AF082186, D78345, D50010, D13509, AJ244004, A20702, AR062872, AR062873, A20700, A43189, A43188, AR017907, AJ244003, AC002563, X55486, X76012, AC007308, AC002470, AL031293, AC002430, and AC007384.
HNHHS79	5300	775192	1 - 359	15 - 373	
HNHHT35	5301	707342	1 - 392	15 - 406	
HNHHT55	5302	465438	1 - 418	15 - 432	AC000093.
HNHHT70	5303	783033	1 - 180	15 - 194	AI274692, T40452, F33126, AA076426, N25415, AA321595, AA975915, AI273675, AI268564.

					AW276933, AI138918, AA741020, AI371804, AI812021, AA640204, AI343078, AW341882, T76991, HI3565, AF109907, AL034423, AC004491, AF038458, AC005668, AL033527, AC005740, AC004552, AC005822, AC005548, AC007546, AL109733, AF088219, AC005859, AC003959, AL035089, AL009181, AC006343, AC005082, AC005919, AC004470, AC004531, AC007388, Z98047, AC006059, AL121603, AL023799, AC005291, AP000696, AL135744, AC006996, AC007312, AC003098, Z94721, AF003626, AC004858, AP000688, AC002070, AC004967, Z98941, AC008372, AL031117, AC004841, AL035425, AL139054, AC005539, AL035695, AC005971, AP000031, AC004916, AE000658, AL109865, AC004217, Z98946, AC011311, AL035400, AC003071, AC004685, AL049833, AP000344, Z94056, AC004849, AL109963, AL021408, AL133245, AC007376, AC002381, AC007938, AC012384, AC005049, Z84469, AL080243, AF117829, AC006305, AC004870, AC005800, AC002312, AJ251973, AC005412, AL031650, Z98304, AC018769, Z96074, AC005994, AL035555, AL031657, AC006441, AL023807, AL023281, Z86062, AC005670, AC005158, AC002416, Z99716, AC007878, AL049696, AC004003, AC003950, AP000516, Z98752, AC004813, AL117694, AC004583, AC004801, AL049776, AC002365, AC004522, AL049843, and Z93241.
HNHHU46	5304	465395	1 - 346	15 - 360	AI950671, AA586656, F03525, AA829565, AI611739, AC005837, AC006285, AL121595, AL050317, AC002527, AC006088, AC005488, AC005318, AC002996, AC004942, AC005841, AF165926, AC005209, AC016025, AC005368, AC007151, AC005971, Z83840, AC005914, AC002477, AF205588, AL133382, AL049766, AP000347, AL121652, AF053356, AC006011, Z82244, AL008721, AL022345, AL049776, AL133163, AL133245, AL050318, Z99716, AL049712, AC003109, Z97053, AC006468, AC008372, AC004821, AC004408, AC005924, AL034343, AC005899, AC004854, AC005765, AC002369, AL021808, AP000692, AL109798, AL049829, AC004601, AL049759, AC006449, AC005933, AL023807, AC004966, AC005902, AC004019, AC002352, AC016026, Z83826, AC005482, AC004526, AL034379, AL031283, AC005529, and Z95114.
HNHHW01	5305	859935	1 - 407	15 - 421	Z98885.
HNHHW32	5306	699255	1 - 272	15 - 286	
HNHHW58	5307	739288	1 - 228	15 - 242	AA824650, AA663908, AI302974, W89152, AW338697, AL035400, AC005912, M63543, M63544, AC007227, AC004841, AC004263, AC007327, AL023807, AC007993, AC006430, AC005764, AF141309, and AC004408.
HNHHW61	5308	742071	1 - 145	15 - 159	
HNHHW73	5309	765588	1 - 322	15 - 336	
HNHIA02	5310	920094	1 - 482	15 - 496	AL119119, C06015, T11417, D59503, D81111, D80064, C14227, D58246, C14389, D80195, AW360811, D59502, AW177440, D51799, D80164, AW178893, C15076, D81026, D80258, AW375405, D59467, C14407, D59275, D58283, D58101, D80227, D80022, D81030, D80166, D59859, C14331, D80193, D59619, D80210, D80391, D80240, D80045, D51423, D59787, D80038, AA305578, D80253, D80043, D80212, D80196, AW366296, D80188, AW360844,

					AW360817, D80219, D57483, D59610, D59927, AA514184, D80378, AA514188, D59889, D80024, D80302, AI557774, D80439, AW177501, D80269, AW177511, C14298, D80247, D50979, D80522, AA305409, D80251, D80168, D80241, D80014, AI557751, D80268, D80366, D51022, C14429, D80248, D50995, C14014, D59695, D51060, F13647, AW360841, D51103, D80133, AA514186, D80157, AW179328, AW352117, D52291, D59653, AW360834, AI535686, D45260, AW375406, D51759, D59627, AW378534, C03092, T03116, AA809122, AW179332, AW377672, AW378539, D80949, AW179023, AW178905, D51079, H67866, T03269, AI525923, AW377671, H67854, AW378533, C05695, C75259, AW378532, AW369651, AW352171, AW178907, D59317, AW352170, AI525920, AW177505, D59373, AW178906, D51250, AW377676, AW179024, AW178775, D59551, AI525917, T48593, AW177731, AW178909, AW177456, C14973, AW378528, AW178762, AW179019, C14344, D51221, AW179329, AW179018, AW178980, D59474, Z21582, AW178754, D60010, D60214, AW179020, AW352158, AI525227, AW178908, C14046, AI910186, AW177733, D45273, C14957, AI525235, AW179012, AI525925, AW352120, AW378525, AI525242, AW179004, AI525215, AW177734, AW367950, D51213, AW178986, AW178914, AW178774, AW176467, T02868, D59976, AI525912, AA285331, C14077, AW178781, C16955, AW378542, C05763, Z33452, T02974, AI525237, AW179009, H67858, AI525222, AW178911, AI525928, AW378543, AI535959, AW378540, AW177722, AW352163, C13958, AW360855, AI535665, T03048, AW177728, C04682, D51053, D31458, Z30160, N66429, D80314, D80228, AC000378, A82595, AR060385, A84916, AB028859, AJ132110, A62300, A62298, AB002449, AR018138, AR008278, AF058696, I50126, I50132, I50128, I50133, AR016808, I14842, AR054175, Y17188, D26022, AR016514, X67155, A67220, Y17187, AR060138, Y12724, D89785, A45456, A94995, A26615, AR052274, A43192, A63261, A43190, AR038669, A78862, D34614, A70867, AR066488, A25909, Y09669, AR066487, AR062872, A30438, AR008277, AR008281, AR008443, I82448, AR016691, AR016690, U46128, D88547, I79511, A64136, A68321, X82626, D50010, AR008408, X68127, X64588, AR025207, AR060133, AF123263, and AR032065.
HNHIA16	5311	661931	1 - 411	15 - 425	
HNHIA20	5312	669685	1 - 408	15 - 422	AA601673, AW088224, AI453383, AC007406, AL079340, AC020663, AC007707, Z95114, AC007934, AC005667, AP000557, AP000359, AP000692, AC003689, AP000326, AC004003, AC005071, L47234, AP000169, AP000054, AP000122, and AL132712.
HNHIA34	5313	706675	1 - 192	15 - 206	AF110326, and AC004559.
HNHIA58	5314	736046	1 - 378	15 - 392	AL078614, and AL109748.
HNHIA64	5315	745861	1 - 437	15 - 451	AI355414, AA228442, AW192599, AI569100, AI754567, AI038304, AI249688, AI285696, AA605056, AI580707, AI570943, AA262752, AA779783, AA904211, AA297208, AI077941, AI755214, T03576, AA601218, AI049701, AA828834, AA838091, AW131356, AA689351, AA127222, AI039257, AA508036, AA525293, AW070532, AA343523, AA569402, AA369727, AA228979, AA229823, AA558404, AW081610, AI080307, AC005841, AC005071, AL022721,

HNHIA73 HNHIA94 HNHIA95	5316	559344	1 - 258	15 - 272	AC004217, AC005365, AL079295, AL049747, AF109907, AL049869, Z81369, AC003950, AL008725, AL080317, AC007993, AC001083, AC005531, AL109628, AJ246003, AC005180, AC005618, AC002312, AF196969, AF111168, AC005535, AC005220, U58668, AL031595, AC002400, AL035458, AC004596, Z83826, AL031848, AC004222, AC004223, AC004878, AL008582, AC006487, AL034420, AC005844, AC007688, Z83847, AC006544, AC005277, AC007225, AC005911, AC005229, AC004148, AC005500, AC005486, AC005300, AC002470, AC007227, AP006692, AC005003, Y14768, AF207550, AL049569, AC005821, AC005057, AP00103, AC005800, AL035405, AL022315, AL079304, AP000087, AP000505, AC005377, AL117694, AC002094, AC003983, Z94056, AC005288, Z86061, AC004638, AL109613, AC004491, AF031078, AC005274, AF134726, AC005081, AC005082, AL031427, AC007283, AC005261, AL080243, AC005089, AC005529, AF196972, AC005399, AP000553, U91326, AC003109, AF030876, AL121658, Z98048, AC007226, AC007308, AC007421, AL121653, AC002430, AL035249, AC002310, AC006101, AC005015, AC004797, AF129756, AE000658, AC001456, AC005921, AL109798, AC005940, AC005484, AC005231, AC005412, AC005871, AC006064, AL031587, AC006077, AC007384, AC009509, AC004477, AL109952, AC006948, AP000117, AL022334, AC005252, AL133246, AC006468, AC005578, AC006006, AL049872, AC004883, Z98044, Z99716, AC007546, AL022322, AC004033, AC004475, Z81359, AL049843, U07563, AC004000, Z95116, AL031432, AC004812, AC006571, AC005157, AC004685, AC007731, AP000350, Z98304, AC005031, AL031133, AL022326, U91321, U80459, AC004832, AL031659, AC002477, AC006121, AL121652, AL035071, AC004494, AC005387, AL049766, AC004858, AF196971, AC000378, AP000689, AC004693, AL078584, AC008072, AC007551, AC011362, AC000353, Z99128, AP000045, AC005881, AC007676, U07562, Z70288, AL050306, AC007842, Z83844, AC004813, AL023575, AL080242, AC007774, AC005702, AC006953, AL133396, AC005971, AC002351, AL078638, AC005600, AC005668, AC005355, AC002554, AC002316, AC022517, AC002369, AC002395, AL050341, D87675, AC006285, AC003663, AC006315, AC004125, AL139054, AC004922, AC004150, and AC004531.
	5317	970720	1 - 295	15 - 309	
	5318	908419	1 - 434	15 - 448	
HNHIB22 HNHIB56 HNHIB77 HNHIB94 HNHIC39	5319	967038	1 - 348	15 - 362	R93353, AA447817, AA574189, AW139964, W81697, AI887846, AA831618, AA677404, AI124782, AA447667, AA765804, AC008173, AF124523, AF146367, AF118808, Z83841, AC002464, AC005820, AC006048, AC004074, AP000509, D84394, AL096775, AL109954, AC007359, AC008175, AL096801, and AC006313.
	5320	734763	1 - 318	15 - 332	
	5321	781214	1 - 396	15 - 410	
HNHIB94 HNHIC39	5322	793210	1 - 338	15 - 352	AA663964, and AL035106.
	5323	705375	1 - 410	15 - 424	

HNHIC46	5324	842003	1 - 441	15 - 455	
HNHIC96	5325	779876	1 - 371	15 - 385	
HNHID29	5326	690646	1 - 391	15 - 405	
HNHID53	5327	727151	1 - 395	15 - 409	
HNHID55	5328	731761	1 - 438	15 - 452	<p>AA169263, AA610219, N23896, AI053911, AA526630, AW074382, AA747469, AA719510, AA532882, AI537772, AI460009, AA961035, AA804925, AA378690, AA380354, AA829073, T60681, AA564865, AW191886, AI678368, AA526856, AA557883, AW021583, AA807583, AA679154, AA613624, AA533944, AI802801, AI720058, AA706291, AW410354, AA137013, AA62976, AA353907, AI383057, AA338544, AI791150, AA954924, AI254779, AA847515, AA599550, AA807845, AA127426, AA551105, AA630672, AA613232, AW148507, AI445088, R58559, AI249683, AA659535, AI047349, AW069572, AI037632, AF034194, AF037630, AA531580, C75192, AI267818, AA722297, AI654738, AW168520, AI811563, AA331301, AI079709, AI783549, AA948728, AA640277, AI120986, AA136577, AA011026, AA604840, AA864261, AA668387, AW082559, AI086830, AA664942, AI138329, AC005668, AC005722, AC007161, AC007308, AC004706, AI133382, Z84489, AC002470, AI096762, Z84487, AC006222, AC010209, AP000252, AC002538, AC006023, AP000134, AP000212, AC004522, AP000022, AC004801, AI079304, AC005288, AF207955, AC004967, AI022312, AC006353, AC006013, AC005796, AR036572, U91328, AC004694, AC005593, AI008707, AI021397, Z84469, AC006144, AC004263, AC000025, AF196969, AC005519, AC005527, Z97632, AC008012, AI050348, AI080243, AC006079, AC005340, AC005953, AC007136, AC004134, AC007845, AC006974, AF196970, AI031685, AC005335, AC007868, AC005529, AC005594, AC005280, AC004815, AC006275, AC009247, AC007066, AI133355, AI022069, AC007463, AC003009, AP000159, AP000017, AC000353, AI022320, AC003669, Z97183, AI109963, AF111167, AC002350, AP000359, AC002369, AC004517, Z82901, AC006211, AI135960, AJ131016, AI031846, AC004526, U89335, AI080241, AI133445, AC007226, AC005940, AC004864, AC005531, AC005932, AI031721, AB014077, Z93017, AC005495, AI008723, AC004212, AB023050, AP000512, AC005226, AC004841, AP000164, AF121781, AI022165, UI6812, AC007193, AP000113, AC004558, AC005666, AC004960, AC004832, AC002997, AI031229, AC004938, AI139054, AC004656, AC002070, AC009516, AC002299, AC004209, AC005736, AC004019, AP000076, AI031295, AC004934, AC006130, AC004097, Z83838, AC007565, Z95152, AP000964, AC005756, AI022315, AC004410, AC007435, Z85999, AC002105, AC005808, AC006449, AC004000, AF207550, U73169, AP000245, AC005837, AI035422, AI133448, AP000300, AI034548, AC016026, AI034549, AI008726, AI133371, AC004686, AC000094, AI096701, AF038458, AC004486, AI022721, AC002310, AI031311, AC010197, AF186194, Z93783, AI031296, AC006241, AI078476, AC002492, AF039907, AP000553, AI020997, AC005224, Z11900, AI096774, AC005255, AC005360, AF227510, U91322, AC000364, AP000514, AP000510, AP000556, AP000557, AC003007, AC007041,</p>

						AC005632, AL133297, AL049766, AC004099, AB022785, AL121769, AP000697, AC007666, Z97056, AL031680, AC004553, Y14768, AP000045, AL122020, AC002468, AP000550, AC007312, Z98752, AL031230, AC005160, AP000348, Z93023, AL034429, U85195, AF027390, AC004707, AL109939, AL031589, AL121603, AF065396, AC004859, AC004778, AC004646, AC008018, AP000155, AP000505, AL049776, Z74739, AC000052, AL034376, AC005144, AC004776, AP000356, AC006001, AE000658, AC004812, AC006312, U95742, AC003950, AC004887, Z84480, AC005694, AC006138, AL049647, AC005823, AC004149, AL031432, AL049539, AC005695, AL078583, and AB023048.
HNHID79	5329	774044	1 - 445	15 - 459		
HNHIE75	5330	765585	1 - 403	15 - 417		
HNHIE82	5331	921945	1 - 652	15 - 666		
HNHIG01	5332	916503	1 - 396	15 - 410		AA601335, AC002041, AC006359, AC006352, U91320, and AC007028.
HNHIG13	5333	465404	1 - 315	15 - 329		AL110311, and AL035460.
HNHIG19	5334	668657	1 - 417	15 - 431		AW385577, and AL035652.
HNHIG37	5335	708713	1 - 400	15 - 414		AC005346.
HNHIG68	5336	753025	1 - 398	15 - 412		
HNHIG71	5337	465407	1 - 414	15 - 428		
HNHIH23	5338	675262	1 - 311	15 - 325		
HNHIH27	5339	681727	1 - 424	15 - 438		
HNHIH29	5340	689891	1 - 182	15 - 196		D45273, D80269, D59467, D80227, AA809122, D50995, D51079, D80043, D59275, T11417, D50979, Z21582, D80378, Z33452, C14077, F13647, T03048, T02868, D51423, AI525242, Z30160, H67854, D80188, D80247, D57483, C14331, T02974, D51799, AA514188, AI557774, C14344, D59610, C14407, D59927, AA305720, D80241, D58101, AI525237, AI525917, AI525920, AI525903, AI525238, N66429, AI525907, AI525227, AI525215, AI525969, AI535961, AR008277, AR008281, AB002449, AR016808, AR008278, A84916, I79511, AR054175, AR018138, and AF058696.
HNHIH46	5341	720333	1 - 402	15 - 416		AA480792, AI687146, AA594072, AA351003, AA984114, AC002530, AC004637, AL009031, AC002326, AC002352, AC004408, Z70280, Z96104, AL033504, AP000503, AF134726, AC000134, AJ239322, AC005939, AL109847, AC002978, AL118498, AC004019, AL031733, AC008115, AB016897, AF095725, AL109623, AC002546, AC004125, AL139054, AC005859, AC008040, AC000081, AC005512, AP000326, AP000169, AP000054, AP000122, AC006088, Z97832, AL049830, AC000118, AL009178, AC004167, AL009174, AL034423, Z93017, AC007486, AC005881, AL109628, AP000555, AC004084, U79746, AC002477, AC005229, AC002044, AC000353, AC005562, AL020997, AC002072, AL049694, AC005484, AC003043, AC012099, and AL136297.
HNHIH58	5342	739290	1 - 343	15 - 357		AL031728.

HNHH66	5343	684531	1 - 162	15 - 176	AC005209. AW069227, AW406755, AL041375, AI791659, AI479148, AI365988, AI358229, AI431303, AA502532, AI753365, AI354228, AI521525, AA226584, AI35246, AA573020, AW151541, AW419262, AA482711, AA861959, AI609972, AI754926, AW193265, AA424249, R67701, AA128592, AI912401, AI356440, T29180, AI289505, AI926102, AI084012, F00982, AI431434, AA148489, H79586, AI362552, AA904211, AI471481, AI176605, AI798449, AA015948, AW316969, AA984258, AI244254, AI755214, AA610491, AW084173, AI888468, AI797998, AW341955, AI634187, AA682912, AA846923, AI754105, AA584482, F36273, AA904275, AI569363, AW261996, AA601680, AA642809, AI044858, AC006064, AC004477, AC020663, AC006111, AL035684, AC005488, U85195, AC007376, AE000658, U47924, AP000462, AC005695, AC004834, AB017654, AC005081, AC005257, AL021546, AC002369, AP000557, AL049869, AC004019, AL049872, X55928, AC007993, AC008545, AL008726, AL009181, AP000348, AL022237, AC005037, AF111168, AC002425, AC006449, AL023575, AC005480, AC005041, AC004156, AC005255, AC005231, AC004752, AC007387, AF207550, AL135744, AC006125, AF053356, AC005034, U78027, AC005776, AC007421, AC006952, AC005215, AC004821, AC006512, AP000355, AC002544, AC002395, AD000092, AL035455, AC002310, U95742, AL034379, AC005048, AC003682, AL079295, AL035072, AC002316, AC004812, AC002126, AC005071, AL035089, AC005581, AC004491, AC004496, AC005409, AC004263, AC005971, AL034420, AC002477, AC005330, AC004983, AC005412, AC002492, AL031390, AC004216, AL034417, AL031767, AL022326, AL031311, AL031685, AC005305, AC006014, I51997, AC009516, AB000882, Z98752, AC005057, AP000211, AP000133, AC007785, AC016025, AL133245, AL022323, AC006011, AC004106, AC000075, AC007546, AL021707, AC004887, AL078581, AC000084, AL136295, AC005399, AL109758, AC002314, AL132641, AC005726, AC006112, AL096702, AC002491, AF011889, AL080243, AC007242, AC007298, AP000210, AP000132, AP000115, AL022476, AC007226, AC007216, AC008126, AC007845, Z86090, AL022165, AF045555, Z81369, AC005944, AL031662, Z98048, AC004098, AC005722, AC003029, AC007182, AC005740, AL121934, AC004150, Z92540, U29953, AL132642, AL133353, AC005069, AC006511, AC006315, AC004890, Z84480, AL096701, AC005527, AF109907, AC003982, Z99291, AC004167, AL031680, L44140, AC006139, AC007263, AP000511, AC004253, AC005193, AP000556, AP000552, Z84466, AC006441, AL034548, AL109827, AL050318, AL049831, AL031255, AC006530, AC007240, AC006241, AC004072, AC002347, AC005914, AC005378, AL022327, AC004494, AC005668, AF001550, AL021579, AF031078, AP000248, AL109963, AP000555, AC005519, AP000356, AF155238, AL034555, AP000512, AC006077, AP000045, AP000113, AC005746, Z82180, AL020995, AC003006, AL031005, AC006365, AF030876, AC006071, AC006948, AC002394, AP000501, AC007541, Z99716, AP000354, AL031228, AL031120, AC005516, AL035587, AC004543, AC005225, ..
HNHH71	5344	760371	1 - 311	15 - 325	
HNHH73	5345	765591	1 - 419	15 - 433	

						AC003663, AC007066, AC005220, AC005180, AC004596, AC005900, AP000514, U95090, Z93023, D87675, AF165926, AC003101, AC003950, AC005197, AC007899, AC006137, AL049760, AC005288, AC009336, AC005324, AC005280, AC005759, U91321, AF129756, AC005261, AC004448, AL049749, AB015355, and AC005203.
HNHIH82	5346	779874	1 - 414	15 - 428		AL023653, and AL022162.
HNHIH96	5347	734114	1 - 596	15 - 610		
HNHIR84	5348	775407	1 - 435	15 - 449		AC005137.
HNHIS14	5349	967087	1 - 405	15 - 419		
HNHIV95	5350	795877	1 - 333	15 - 347		
HNHIW13	5351	657249	1 - 390	15 - 404		
HNHIW35	5352	707339	1 - 391	15 - 405		AA121919, N69190, AI079423, AL119438, AI539009, Z99426, Z98051, AL121769, AL096853, AC005839, AC003663, AC002994, AC006077, AL121603, AC005529, AL109628, AC005755, AL021939, AC005726, AC005678, AL031594, AC004263, AC010582, AC005089, Z98745, AC004019, AP000512, AC005914, U85195, AE000658, Z83826, AL035587, AL009181, AC006571, AC007686, AL022345, AC004382, AC006372, AC005004, AL031589, AC002115, AC004955, AL080242, AC008015, AC004383, AC006509, AC004087, AC006505, U96629, AC003682, AF038458, AL049636, AC005803, and AC004967.
HNHKL15	5353	859926	1 - 409	15 - 423		
HNHKL60	5354	739885	1 - 335	15 - 349		
HNHKLJ24	5355	859923	1 - 377	15 - 391		AA847395, AA525331, R98239, AI473300, N49802, AA577790, AI609972, AA635005, AA486877, H68186, N95156, AI302917, AW272599, AW327624, AL037714, AW327282, AC003967, AP001050, AL022098, AF124730, U91318, AL109758, AC004771, AC005256, U95090, AC005330, AC005622, AL008726, AL049610, AL035588, AC004743, AF064861, AC004821, AP000688, AC007386, U82828, AC005722, AC005392, AC004456, AL024495, AC005907, AC006130, AL031777, Z93930, AC005006, Z83851, AC004881, AL024498, AL024509, AC004765, Z96074, AP001053, AL049869, AL109759, AC004382, AL133246, AC005799, AL034429, AC005048, AC004049, AB003151, Z69920, AL050307, AL031664, AL022165, AC005017, and AC005083.
HNHKL72	5356	761427	1 - 301	15 - 315		
HNHKL88	5357	786555	1 - 461	15 - 475		AA745582, AA553457, AI937850, AA515224, AA594145, AI570261, AI439360, AI623898, AA310868, AI659826, AW341890, AA704643, AA663306, AA587604, AA805373, AW338086, AA347930, T40077, AA743980, AI590772, AW406755, M86143, AI365988, AW250970, AA358409, AA347927, AA780929, AF147277, AL049776, AP000294, AL118497, AC002544, AC005291, AL035420, AL031276, AP000043, AF196779, AC002350, AC004854, U95742, AL008582, AC006285, AP000111, AC003965, AC002553, AC016025, AC005911, AL049557, AC004955, AF134726, AC010197, AC002470, AL121877, AC005231, AL035681, U96629, U75285, AC006241, AC008273, AC010200, AC004801, AF053356, AC005969, L44140, U91326,



HNHKN73	5358	762011	1 - 548	15 - 562	AC005594, AC004076, AC005510, AL132712, AC004745, Z68872, AC004972, AL008708, AC007793, AF088219, AP000082, AP000557, Z93017, AC006251, AF045555, AC009731, AB020867, AC008079, AB014079, AC003082, AC005197, AC004890, AL096701, AC007032, AL049697, AC004263, AC007731, AC005500, AC009784, AC002365, Z22650, AC004690, AL035699, AC006139, AC000003, AC006153, AP000359, AC004650, U78027, AL035455, Z73417, AC000353, AL023879, AC009509, AB023051, AC005409, Z86061, AC004234, AC000094, AC005944, AP000223, AC000085, AC009178, AF200465, Z97196, AL031584, AC005781, AL022320, AC007308, AC006946, Z83840, AL121653, AC002316, Z97054, AP000952, U13679, AL022721, AL121915, AC004019, AP000552, AP000503, Z83822, AC005181, AC008124, and AP000512.
HNHKP30	5359	793658	1 - 336	15 - 350	AC005216.
HNHKP48	5360	721149	1 - 726	15 - 740	AA421400, and AL208373.
HNHKP72	5361	761432	1 - 722	15 - 736	
HNHKS69	5362	750487	1 - 318	15 - 332	AA491361, AA297081, AA649079, AL362442, T31183, AL570805, AA468289, AL732682, AL872493, AL289050, AL872476, AL284092, H25626, AA337978, AL610900, R86141, H01852, AL078143, AA516045, AL035417, AC005043, AC011456, AF049895, AF001549, U52112, AC005881, Z85996, AC005244, AP000962, AL022336, AC006241, AC005480, AC007688, AC005625, Z82203, AP000689, AC022517, AB003151, Z93930, AC004383, AC007774, AL035071, M26434, AC006023, AL109653, and AL109657.
HNHKS75	5363	766926	1 - 311	15 - 325	
HNHKT06	5364	934643	1 - 270	15 - 284	
HNHKT75	5365	766924	1 - 128	15 - 142	
HNHKKV67	5366	751205	1 - 363	15 - 377	AC000364.
HNHKKW47	5367	786020	1 - 348	15 - 362	H69968, AA601230, AL120191, AA878492, AW104800, AA629963, AL288033, AL800343, H93132, AA501867, AA362790, AA600132, AA653916, AA525769, AL246061, AA078509, AA079884, AA526662, AL223626, R72242, AW249541, AL312533, R84528, AL869786, AL054090, AA664248, AA678733, C14966, AL251241, AL134332, AL284543, AW238212, AL254770, AL251944, AL251034, AL251203, AL251284, AL250552, AW130446, R87912, AA088738, H37815, H41308, T08386, AL043315, AW419389, AA487829, AL138017, N25043, AW089950, AL249853, AA286727, AC005348, AC005180, U82828, Z94161, Z81369, AL079295, AC006537, AC007676, AL050333, AL033522, AC005049, AL024498, AF196969, AC005355, AL035067, AL109865, AL009177, AL022328, Z85986, AC006101, AC002117, AC004477, AC005921, AL023876, AL109627, AC007787, AC000070, AC005553, AC004520, AC003071, AC008044, AC005486, AC005697, Z98051, AC005331, AC002364, AC006141, AF222686, Z85999, L43399, AC020663, AL050313, M89651, AF031078, AC006057, AC000067, AF030876, AC005943, AC006088, Z98884, AC004882, AP000260, AC004007, AL050318, AC004765, AL034549, AC002126,

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HNHKW76	5368	767917	1 - 499	15 - 513	
HNHKW81	5369	761429	1 - 520	15 - 534	
HNHKW83	5370	780650	1 - 519	15 - 533	
HNHKX10	5371	963575	1 - 824	15 - 838	
HNHKX38	5372	796804	1 - 513	15 - 527	
HNHKX47	5373	789625	1 - 457	15 - 471	AC007649.
HNHKX77	5374	771530	1 - 365	15 - 379	AL008718.
HNHKZ11	5375	966164	1 - 708	15 - 722	
HNHLA08	5376	958422	1 - 595	15 - 609	
HNHLA16	5377	784264	1 - 800	15 - 814	AA483274.
HNHLA55	5378	754480	1 - 652	15 - 666	
HNHLA71	5379	761430	1 - 716	15 - 730	AW087728, and Z98742.
HNHLA89	5380	786461	1 - 547	15 - 561	AA036766, and W61087.
HNHLA90	5381	970724	1 - 595	15 - 609	
HNHLB08	5382	958416	1 - 445	15 - 459	AL046409, AW029038, F36273, AA482711, AI431303, AI350211, AI963720, AI284640, AW276827, AW162049, AI929531, AI679782, AW193265, AI962050, AW088202, AI613280, AI801482, AA469451, AW261871, AI669453, AI345654, AW419262, AL048925, AW088616, AW148792, AW021583, AI358501, AL037683, AA610491, AI061334, AI358229, AA101689,

HNHLC69	5383	754466	1 - 454	15 - 468	AA679672, AA577906, AL041690, AL379719, AA587604, AA649642, AL349850, AW10400, AL801591, AL918421, AL619997, AL118991, AL298710, AW269488, AA446657, AL471481, AL68846, AL341664, AW438643, AA652057, AL344844, AW008317, AL446638, AW193432, AW080120, AA309841, AW103758, AA584581, AL375710, AL270117, AW270716, AL358343, AL537955, AL143242, AL085719, AL580652, AA632868, AA720758, AA483771, AA846935, AA451612, AL610159, AL955323, AL792287, AA737318, AL061227, AL053790, AL289067, AL921476, AW276817, AA714453, AW023389, AL973803, AL653886, AA857486, AL119984, AL038785, AL568678, AA604156, AA594145, AL754658, AL446464, AL744995, AA908849, AA488395, AW169537, F18638, AA350859, AL865897, AL110688, AL1133164, W79504, C06339, AA346454, AA488432, AF077058, X55925, X54175, D83989, X75335, U18398, AF015167, X54178, U18391, I51997, AF015147, U18390, X55932, X54181, U18399, U18395, U18394, U57009, U57006, S75201, AF015153, U57007, M37551, U18392, U57005, U57008, X53550, U18393, AF015151, U18387, AF015157, AF095855, X55930, X55926, X54180, AF015156, U57004, X55931, X54176, M87919, U67801, AC006466, X54179, U12580, AF196779, AF015149, AC006571, U11309, AP001172, AC008039, AC007262, AF042090, AC008064, AC007845, AC004263, AC005019, AL117256, AF015148, AC006207, AC008079, AL022724, AL049562, AL021407, S70707, AP000552, AL110292, X55928, AC005597, U67231, AL049557, AC006277, AC007308, X76629, AC004232, AC009516, AL078624, AF023460, AC002119, AP000555, AP000049, AL031286, AC008101, AC004987, Z82210, AC007043, U67827, AC005779, AC002365, AC005932, AL023284, AC000086, AL034423, AC005661, AF015170, AP000311, AL034451, Z49816, U67221, AC006019, L47228, AP001052, AC006064, L81869, Z99716, AF015160, AL078593, AC005067, AF015155, AL031123, AL133246, AC005399, AC005081, AC005531, AC005102, AL022725, AC004894, AL020996, AC005620, AL078477, AC007537, AL096768, AC005777, AC001050, AC007450, AL096701, AC006953, Z69666, M16110, AL080243, AL023882, S43650, AC006128, AC007114, AC016026, AC016831, AL031280, AF165176, Z98257, AC006449, AC000025, AC004596, AC002564, AC007317, AL139054, AL049636, Z75887, Z94721, AC006211, AC005527, Z86061, AC006312, AP000156, AC005529, AL121655, AC004019, AC005104, AL049745, AC005911, AC005785, X55927, AL050318, AC002430, AL031295, AC004034, AL096771, AL035458, AL022316, AB020859, AC004033, AC006213, U12583, U80017, AC009223, U95740, AL035450, AP000567, AC005182, AL021453, AC004638, AC004672, AL031281, AC005193, AC007384, AP000350, AC006597, AL021877, Z82180, AC003684, AC005250, AP001054, AC005066, AC004859, AC006241, M87916, U69569, AC006057, AC000118, Z99755, Z92845, AC006479, AC005944, AC004848, AP000359, AC005778, AC007707, AC005046, AF085913, Z82189, AC004217, AC005075, AL031257, Z98051, AC007324, AC004940, AC004985, AC002349, AL035659, AC006285, and AC004699.
	5384	859857	1 - 318	15 - 332	
HNHLD08					

HNHLD13	5385	805983	1 - 400	15 - 414	
HNHLD37	5386	859859	1 - 394	15 - 408	Z49769, and AC005516.
HNHLD81	5387	779345	1 - 288	15 - 302	
HNHLE72	5388	966149	1 - 232	15 - 246	
HNHLE75	5389	859856	1 - 244	15 - 258	
HNHLE73	5390	908449	1 - 243	15 - 257	
HNHLE78	5391	859858	1 - 343	15 - 357	AW403735, AA459771, AW138677, AW293884, and W44360.
HNHLE76	5392	883321	1 - 211	15 - 225	AC004844.
HNHLE69	5393	754440	1 - 168	15 - 182	
HNHLE77	5394	967239	1 - 506	15 - 520	Z94161.
HNHLEQ36	5395	760460	1 - 519	15 - 533	
HNHLEQ61	5396	795942	1 - 501	15 - 515	
HNHLEQ80	5397	775621	1 - 239	15 - 253	
HNHLE73	5398	761855	1 - 404	15 - 418	
HNHLE91	5399	789786	1 - 262	15 - 276	M62264, A1745473, AA338228, AW370286, AW238594, F29013, A1459798, AA627921, AA317224, AA599354, AA977307, T49213, AW404844, AL120183, AA365407, AA229984, A1367551, AA937618, R62701, AA654781, AA782306, AA338378, T48241, F02597, AL037533, AL079894, Z70758, AC004491, AC002067, AC004884, AC004596, AC004837, AC004928, AC005399, AC004019, AL096791, AC006468, AL109963, AL031133, AC016025, U91326, AC007055, AC002404, AC003010, AC006120, AL022163, AC005046, AL049776, AC002468, AC006277, Z82206, AC004998, AP000354, AC004859, AL049778, AF045555, AC004552, AC007276, AL022726, AP000045, AP000113, AL008582, AL031666, AC002531, AC007435, AC004106, AL031311, AF196779, AC004805, AL024507, AL035461, AF038458, AC005839, AC006057, AL021154, AC005907, AC002352, AL021808, AC007731, AC002994, AL109827, AL022400, AC005500, AC004881, AC007283, AC002563, AC004887, AC012627, AL031584, AL022316, Z99943, AP000689, AC008079, AL035684, Z98051, AL022476, AC005520, AC005291, AC004000, AC000052, AC002527, AC007225, AC006449, AL033525, Z93020, AJ003147, AC005993, AC005879, AF015416, and AB003151.
HNHLS04	5400	927077	1 - 297	15 - 311	
HNHLS53	5401	827329	1 - 273	15 - 287	
HNHLE749	5402	784983	1 - 116	15 - 130	AL031258.
HNHLE784	5403	782319	1 - 265	15 - 279	
HNHLEW93	5404	791782	1 - 489	15 - 503	AL096701.
HNHLE782	5405	779298	1 - 327	15 - 341	
HNHLE78	5406	772969	1 - 394	15 - 408	AA324059, AA326603, AA324559, AA328387, T17332, AA878492, AA626840, F03603, A1278847, AL134418, AA550989, A1904944, A1150934, A1268019, AA133013, A1733856,

						AW020198, AI473995, AI886360, AI073373, AI039761, AW247338, AW243945, F19643, AI872117, AA078754, AL120282, AI903090, AA525332, AI288033, AA708263, R83585, AW301483, AA598605, AI744933, AA513189, AI188049, AC007386, AC004974, AI133289, AC007848, U89335, AC007240, L35682, AC004966, AC007308, AI049776, AC003101, AC004526, AP000692, AP000502, AF019413, AC004703, Z98200, AC003010, AC006449, AC005562, Z94801, X82877, AC004927, Z85994, AF188024, AL031053, AC005231, Z93023, AI050307, AC005274, AP000432, AP000290, AC002295, AL035420, AC007388, AC007537, AC005779, AC005514, AL008710, AJ246003, AC004466, AF196972, AC004648, AL121658, AC005036, AL031281, AL139054, AL008582, AC005695, AC008132, AL008734, AL008726, AC005768, AC004884, AC004475, AC002301, AP000705, AL049712, AL031599, AC007736, AC003042, AL109984, AF030453, Z95115, AC005288, AF038458, AC004920, AC002115, AC004757, AF027390, AC007227, AC002045, AC002996, AC005378, AC005261, AP000042, AP000110, Z98036, AC002470, AC007542, AC005220, AL031846, AF114847, AF107259, AP000466, AP000094, AP000239, Z93241, AC002463, AL096773, AP000032, AP000104, U73634, Z85997, AC008033, U52112, AC006039, AC009247, AC003089, AL035400, AL034420, AC005295, AC005666, AC006536, AC006210, AC005538, AL035086, AC007686, AC005800, AF111169, AL035659, AC004789, AL035684, AC010205, AC006211, and AC011331.
HNHMD85	5407	876673	1 - 355	15 - 369		
HNHMD25	5408	784479	1 - 585	15 - 599		W58290, W58291, AA633629, AA633622, and Z60515.
HNHMQ93	5409	791798	1 - 342	15 - 356		AL033521.
HNHMR04	5410	927056	1 - 408	15 - 422		
HNHMR43	5411	937561	1 - 350	15 - 364		AL049822.
HNHMR73	5412	967614	1 - 636	15 - 650		
HNHMS77	5413	916609	1 - 392	15 - 406		AL049651.
HNHMS93	5414	791807	1 - 428	15 - 442		
HNHMT53	5415	925689	1 - 378	15 - 392		
HNHMT54	5416	790765	1 - 271	15 - 285		
HNHMT90	5417	937564	1 - 245	15 - 259		
HNHMTU91	5418	789785	1 - 150	15 - 164		
HNHMTW83	5419	780558	1 - 245	15 - 259		
HNHMX45	5420	953411	1 - 750	15 - 764		AC005105.
HNHMY43	5421	859841	1 - 212	15 - 226		AC005828.
HNHMY45	5422	958409	1 - 336	15 - 350		
HNHMY59	5423	883324	1 - 388	15 - 402		
HNHMY71	5424	761436	1 - 337	15 - 351		AA668485.
HNHMTZ07	5425	952290	1 - 467	15 - 481		T59562, T59516, H23893, H23894, AC000116, and AF147372.

HNHNMZ59	5426	761661	1 - 393	15 - 407	AL021026, and A91686.
HNHNMZ86	5427	784999	1 - 79	15 - 93	
HNHNMZ89	5428	786457	1 - 318	15 - 332	
HNHNA02	5429	918720	1 - 215	15 - 229	AL096774.
HNHNA69	5430	754452	1 - 148	15 - 162	AL035409.
HNHNB77	5431	771523	1 - 423	15 - 437	
HNHNC82	5432	779321	1 - 298	15 - 312	D80522, C14331, C14389, D81030, D80022, D80166, D58283, D80043, D51799, D59927, D59467, D59859, D80227, D80195, D51423, D59619, D80210, D80391, D80164, D59275, D80240, D80253, D59787, D59502, AA305409, D80193, D80269, C14429, D81026, D80212, D80366, D50995, D80196, D80188, D80248, D80038, D80219, C15076, D59610, AA305578, D57483, C14014, D51022, D50979, D59889, D80133, D80045, D80024, AA514188, AA514186, D80378, AW360811, D51060, AW177440, D80268, D80241, D80247, D80251, T03269, AW178893, D80439, D80302, AW352170, AW377671, AW375405, AW178906, AW179328, C75259, AW366296, D80132, AW360844, AW360817, AW375406, C05695, AW378534, AW179332, AW377672, D51103, AW179023, AW178905, AW177731, AW378532, D80157, AW177501, AW177511, D80134, AW179020, D51759, D59373, AW352171, AW377676, D58253, AW178907, AW178762, AW178908, AW179019, AW179024, AW177505, AW367967, AW369651, D51250, AW178983, AW360841, AW178775, AW178909, AW177456, AW179004, AW179329, T48593, AW178980, T11417, AW177733, AW378528, AW178754, AW179018, AW177722, AW352158, AW352117, C06015, D80168, AW176467, F13647, C14407, AI910186, D59653, AW179009, AW179012, AW178914, AW178911, AW378525, AW352163, AW360834, D80258, D45260, C14227, D59503, AW178774, C03092, D58101, AW352120, D80014, D81111, D58246, C14298, H67866, AW378543, D59627, AW367950, AW177728, C14077, D80064, D51213, H67854, D80228, AW178986, C14344, AI905856, AA809122, AI535850, AW178781, AW177723, AW378540, AW177734, AI525923, AI525917, AI525920, T03116, AW177508, D59317, Z21582, C14973, D60010, C14046, T03048, AW378533, D51221, AW177497, D51097, D59474, AA514184, AI535686, D59551, D60214, C14957, AI525227, AI557774, Z33452, AI525235, AI557751, C16955, AI525242, AI525912, T02974, AA285331, AW378542, AI525925, D45273, AW378539, AI525215, C05763, AI525222, H67858, AI525903, AW360855, AI525237, T02868, C13958, AA305720, C04682, D51053, AI525928, Z30160, AF058696, A62300, A84916, A62298, AB028859, AJ132110, AR018138, AR008278, AR060385, A82595, D89785, AB002449, X67155, Y17188, A94995, D26022, Y12724, A25909, A67220, A78862, D34614, AR060138, I50126, I50132, I50128, I50133, AR008443, I82448, D88547, AR066488, AR016514, A45456, A26615, AR052274, X82626, Y09669, A43192, A43190, AR038669, AR066487, AR054175, A30438, AR066490, AR025207, I14842, I18367, D50010, Y17187, A63261, AR008277, AR008281, AR008408, AR062872, A70867, AR066482, AR016691, AR016690, U46128, AR060133, D13509, A64136, A68321, AB012117, X68127, I79511, A85396, D88507, A44171,

HNHND80	5433	775612	1 - 418	15 - 432	AF123263, A85477, I19525, A86792, AR032065, X93549, and AR008382.
HNHNE11	5434	966146	1 - 81	15 - 95	AC007312.
HNHNE59	5435	771529	1 - 360	15 - 374	
HNHNE83	5436	780628	1 - 333	15 - 347	A1392922.
HNHNG73	5437	761849	1 - 444	15 - 458	AP000161, and AP000020.
HNHNI10	5438	963571	1 - 212	15 - 226	
HNHNI14	5439	923079	1 - 252	15 - 266	
HNHNJ08	5440	859837	1 - 229	15 - 243	AC005071.
HNHNK71	5441	775635	1 - 180	15 - 194	
HNHNL70	5442	756633	1 - 396	15 - 410	
HNHNN56	5443	859834	1 - 580	15 - 594	AA761012.
HNHNO84	5444	782328	1 - 422	15 - 436	AL133243.
HNHNP80	5445	775631	1 - 540	15 - 554	C14389, D59927, D51022, D80022, D80391, D59787, D80196, D80166, D59619, D80210, D80240, D80043, D81030, D59502, D80195, D50995, D80212, D58283, D80219, D59859, C15076, C14331, D80164, D80132, D59467, D51423, D51799, D59275, D80253, D80227, D80193, D80188, AA305578, D57483, D80269, AA305409, D59610, D80038, D80366, AA514188, D50979, D51060, D59889, D80024, D81026, D80378, D80045, AW177440, D80241, AA514186, C14429, AW178893, D80168, D80248, D80133, T03269, AW179328, C14014, AW360811, D80522, D80251, AW378532, AW177501, AW177511, AW178762, D80134, D51250, AW375405, D58253, AW178775, AW377671, D80268, AW369651, F13647, AW352158, AW366296, D80247, AW360817, AW375406, AW378534, AW179332, AW377672, AW179023, AW178905, C14227, D80949, AW377676, D80439, D80302, D59695, T11417, AW352171, AW178906, AW352170, AW177731, AW178907, AW179019, AW179024, C14298, D80064, D81111, AW179020, AW177456, AW179329, AI905856, AW178980, C14407, AW177733, AW378528, AW178908, AW179018, Z21582, AW352174, D80157, AW178914, AW378525, D51103, AW367967, AW378540, AW360834, AW177728, D51759, D58246, AW178774, AW178911, AW177723, AW378543, AW352163, D59503, C14077, C06015, AW178781, AA285331, T48593, D58101, D51097, D59627, D80258, AI557751, D45260, C03092, AW378533, D51213, D80014, AW367950, AI525923, H67866, H67854, C14973, AA809122, AW178986, T03116, D45273, D51221, AA514184, AI525917, D59317, C14344, D59474, AI535686, AI525920, AI557774, D59551, T02974, AI525227, C14046, AI525235, T03048, AI535961, AI525242, AI525912, AW378542, AI525925, AI525215, C16955, C05763, Z33452, AW360855, H67858, AI525237, AR018138, A84916, A62300, A62298, AJ132110, AF058696, AR008278, AB028859, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, Y12724, D88547, X82626, A82595, AR025207, AB002449, A94995, AR060385, AR008443, I50126,

HNHNP86	5446	784788	1 - 397	15 - 411	<p>           I50132, I50128, I50133, AR066488, AR016514, AB012117, AR060138, A45456, A26615, AR052274, X68127, AR066490, Y09669, A43192, A43190, AR038669, AR066487, I14842, A85396, AR066482, I18367, A30438, A44171, A85477, D88507, AR054175, I19525, A86792, D50010, Y17187, X93549, AR008277, AR008281, A63261, X64588, AR008408, AR062872, A70867, AR016691, AR016690, U46128, D13509, A64136, A68321, AR060133, I79511, AF135125, and AF123263.         </p> <p>           C14014, C14389, D59927, H67854, D59467, D80227, D80195, D51799, D80391, D80164, D59275, D59787, D59502, D59610, D80269, D80045, D58283, C14331, D80212, D59859, D80196, D80022, D80166, D80253, D80038, C15076, D51423, D59619, D80210, D80240, D80043, D81030, AA305578, D80378, D50979, D80193, D80188, D80219, D80241, D51022, D80366, D57483, A50995, AA305409, D59889, D80024, AW177440, AA514188, D81026, C14429, D58253, AW178893, AA809122, D51060, D80248, T03269, AW179328, C75259, D80522, D80251, AW378532, AA514186, D80133, AW360811, AW177501, AW177511, D80134, AW178762, D80268, C05695, D51250, AW375405, AW178775, AW369651, D80132, AW377671, AW352158, AW366296, AW352117, A1910186, AW360844, AW178905, F13647, AW360817, AW375406, AW176467, D59695, D52291, AW378534, AW179332, AW377672, AW179023, D80302, C14227, D80168, AW352171, AW178907, D80439, AW377676, AW178906, AW352170, AW177731, AW179019, AW179024, D59373, D80247, D81111, AW177505, D80157, C14298, AW178909, AW179020, C14407, AW360841, AW352174, D80064, AW177456, H67866, AW179329, A1905856, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, T11417, D51103, AW179004, AW179012, AW367967, AW178914, AW378525, D58246, AW378540, Z21582, AW177722, AW177728, AW178911, AW360834, AW179009, D51759, AW178774, AW378543, AW352163, D59503, D51097, C06015, AW367950, AW178983, AW352120, AA285331, D58101, AW178781, D59627, T48593, C14975, D80258, A1557751, AW177723, D59653, AW177508, A1535850, D45260, AW378533, D80014, H67858, D51213, AW177497, C03092, A1525923, D45273, T03116, C14973, AW178986, AA572801, D80228, D59317, D51221, D59474, D60214, AW177734, A1525917, AC005071, D88547, A84916, A132110, A62300, A62298, AR018138, AF058696, AR008278, AB028859, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, Y12724, I82448, X82626, A82595, AC005537, AR025207, A94995, AR060385, AB002449, AR016808, AR008443, I50126, I50132, I50128, I50133, AR066488, AR016514, AB012117, AR060138, A45456, A26615, AR052274, X68127, AR066490, AR066482, Y09669, A43192, A43190, AR038669, AR066487, I18367, A85396, I14842, A30438, A44171, A85477, D88507, AR054175, I19525, A86792, AC002550, AC007425, AC006501, D50010, Y17187, X93549, AC005332, AC004217, AC005730, AC006117, AC007225, A63261, Z83822, A1109759, AL049795, AC005899, AL035685, A91683, AC004778, AL050333, AC004671, AL031293, AC004881, AL121658, AC004851, AC007993, AC004616, AC005821, Z97054, AR008277, AR008281, AL035659, AL009051, AL109798, AC003010,         </p>
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HNHN023	5447	968911	1 - 423	15 - 437	U48453, AR008408, Z77249, and AC008171. R08335.
HNHN027	5448	920254	1 - 410	15 - 424	AI804369.
HNHN052	5449	859831	1 - 216	15 - 230	
HNHNW64	5450	859832	1 - 208	15 - 222	
HNHNX04	5451	927027	1 - 154	15 - 168	
HNHNX88	5452	959011	1 - 544	15 - 558	AA507824, AI284640, AW088846, AI312309, AI963720, AA877817, AL119691, AW303196, AA846876, AL138265, AW274349, AW327868, AW301350, AA581903, AL046409, AA521399, AA521323, AI144101, AW274346, AL038705, AL120959, AL038072, AW304584, AW265393, AI133164, AI345518, AW193265, AA679514, AI431303, AA490183, AI355206, AI133102, AA720702, AA806796, AA613203, AW268973, AA629992, AW407578, AI865905, AW265385, AI457397, AA531372, AA533036, AI281881, AA469451, AA665330, AI613280, AA491284, AL043719, AA523838, AL046457, AW276817, HT1429, AA470969, AW073470, AI345654, R24887, AI110770, AI053790, AA515549, AA372478, AI305547, AW270382, AW238278, AW340844, AI623720, AA569471, AL045053, AA551503, AL121235, AA503473, AI632991, AL041690, AA587587, AW020340, AA856848, AI610159, AA491814, AL042853, AA525824, AA501809, AA514854, AI654525, AA523843, AW265170, AW276827, AI149478, AA682912, AI801600, AI792518, AI696962, AI633025, AA584145, AA548058, AI821271, AA780515, AA101689, AW072923, AI249997, AI903462, AI567832, AA569661, AA515829, AI061143, AI251436, AI583283, AA719292, AA623002, AI499588, AW103758, AI048925, AA552856, AA552843, AI246119, AI860020, AI350211, AI434695, AA812139, AA775207, AW273218, AI061334, AL048626, AL038474, AA721056, AW440545, AW269488, F36273, AI792505, AI754658, AI282511, AW338086, AI679132, AW276435, AW438643, AW302903, AL042420, AI536665, R97780, AI345157, AA346458, AW168453, AI669453, AW028392, AW271904, AI357288, AI580652, AA515909, AW404653, M77974, AA747276, AA665199, AA649642, AA126035, AA533333, AI368745, AI718446, AA533725, H63262, AA513141, AI754955, F36306, AA503258, AI568678, AA808877, AW029038, AA862173, AI053606, AA577906, AI589230, AA079462, AA604362, AA513181, AW021583, AI956124, AA583955, AC007165, AL021878, AL121754, AC003695, U57007, AL031577, D83989, Z81369, AL079295, AC005166, AL035681, AF109907, AC004447, I51997, AC005844, U57006, AC005589, AC005237, AL049776, AC004883, X55925, U62317, X55926, U18391, AF015148, AC008372, AC005666, AL121718, AC005971, AC008039, AC005071, L48472, AC006432, U57005, AC008417, U18392, AL031279, M37551, U67825, AC007055, AC005399, AC006079, AC003101, AC006064, AC002553, Z97352, AL022476, AC007387, AC005011, AC003038, AL050333, AC005940, AC005231, U15177, AC004957, AC005919, AC009300, AC004611, U18394, X53550, AL008582, AF176815, AJ003147, Z79997, AC004972, AL021707, X55922, AL008583, AL031280, AC005694, AL132641, AC002465, AC003690, AC004887, AF091512, AL078611, AF015156,

HNHOA03	5453	923052	1 - 443	15 - 457	AC004854, AC008072, AC006449, X87579, AC007363, Z49236, AL031680, AC005291, AC005690, AC006207, X55929, AC007011, AC007225, AC006146, AL049780, AC005736, AC005527, AC000052, AP000121, U91323, AC005619, AC004039, AF001548, AC005006, AL133163, AL050312, AC005363, AP000053, AP000168, AP000350, AL109847, AC005747, AL049569, AF027390, AC004916, AF015157, AL078476, AC005529, X55924, U18395, AL049745, AL031594, AC004019, AF002991, AF196779, AC004531, U57009, X54181, X54178, X54180, X55927, D26067, AC007462, AL022336, Z92844, AC003691, AC011421, AL022326, AC004808, AJ010770, AL122020, AP000504, AL008715, AL021393, AC006132, AC006312, AL035424, AL096701, AC005519, AL109628, AC004167, AC005988, X55931, U18393, AC004896, AC002067, AC008154, AC007193, AC002457, AL031282, Z81308, U47924, AL035458, AC005411, AF003528, AC009516, AF038458, AL049759, AC004596, AB023049, AP000512, AF015147, AL049779, AC002449, Z93783, AC002432, U18387, AC005274, AL035079, AL133371, U18399, X54176, AL136018, AC002472, U07000, AC005280, AC004148, U04355, U11309, AC006254, U57008, AL078634, U91326, AC004990, AC006101, AC000117, U67221, AC005757, AL024498, AL034420, AL121655, AC008067, AL049556, AC005330, AC002312, AC004812, AC002476, AC005284, AC004112, AL008721, AC003665, AC005081, AC003080, AL109938, AC004231, AP000558, AC006166, AL008639, AC002117, AL096791, AC006011, AL022318, AP001039, AC005066, X55932, AC004547, AC004544, AC002350, AC004673, AC005076, AC004814, AC007685, AL096829, AC006088, AC007681, AC004712, AL109827, AC002316, AC005089, AC005924, X87344, AC005154, AL021026, AL049548, AC005246, AC004150, U80017, and AC006238.
HNHOC03	5454	922892	1 - 318	15 - 332	AI953346.
HNHOD01	5455	915341	1 - 548	15 - 562	
HNHOD62	5456	852995	1 - 378	15 - 392	
HNHOE53	5457	767329	1 - 619	15 - 633	
HNHOF03	5458	922028	1 - 482	15 - 496	AA311412.
HNHOF07	5459	952291	1 - 438	15 - 452	AA310235.
HNHOF92	5460	790934	1 - 623	15 - 637	
HNHOG84	5461	782316	1 - 540	15 - 554	
HNHOG86	5462	785004	1 - 558	15 - 572	AA663481.
HNHOH10	5463	963562	1 - 546	15 - 560	
HNHOJ03	5464	923072	1 - 698	15 - 712	AA682500.
HNHOM92	5465	792328	1 - 358	15 - 372	AL031277.
HNHOO16	5466	959616	1 - 1089	15 - 1103	H56490.
HNHOO25	5467	859826	1 - 602	15 - 616	

HNH0074	5468	915462	1 - 492	15 - 506	AP000700, and AP000701.
HNH0087	5469	787562	1 - 407	15 - 421	
HNH0P10	5470	963539	1 - 527	15 - 541	
HNH0Q76	5471	767877	1 - 414	15 - 428	
HNH0S70	5472	756593	1 - 342	15 - 356	
HNH0S75	5473	766736	1 - 365	15 - 379	
HNH0T10	5474	963631	1 - 305	15 - 319	
HNH0T11	5475	923065	1 - 470	15 - 484	AF064861.
HNH0T95	5476	795331	1 - 86	15 - 100	U91319.
HNH0U20	5477	773797	1 - 364	15 - 378	
HNH0U68	5478	806090	1 - 449	15 - 463	
HNH0U94	5479	793514	1 - 352	15 - 366	<p>AI471543, AI127353, AI298079, AW169537, T40617, AW167267, AI273968, AI718446, AI287485, AI199692, AW162288, F13749, AA669647, AI567076, AI635274, AI038990, AC007126, AC003006, AC000353, AI023575, AC005180, AC005829, AL031848, AL022316, AL135744, AC002984, AL049569, AJ003147, AL035658, AC002404, AC008101, AC005295, AC005154, AC006271, AC006285, AC016026, AC006057, AC007999, AP000090, AC006077, AC006023, AL021707, AP000044, AP000112, AC005157, AL049795, AC006536, AL096712, AL035587, D87675, AI022315, AC004222, AP001065, AL050318, AL133297, AC006013, AC006125, AC007216, AC005144, AC006544, AC005015, AL049779, Z84480, AL035659, U95742, AC002470, AC006050, Z84484, AC005839, AL022238, AL049829, Z84469, AL035422, U95740, AC005412, AL049636, AC007227, AC008372, AC007182, AF134726, AC006538, AC003009, AL031291, AL049830, AC007919, AC005785, AC006211, AC005815, U91326, AC005060, AL021546, AC006543, AC007845, AC004765, U47924, AC004019, AC005678, AL022476, AP000557, AL033376, Z99716, AC002565, AC007537, AL049776, AC006480, AC008064, AL022163, AF196969, AL023494, U66060, AC002544, AC004638, AC005754, AC007899, AL096773, AC005102, AC006195, AC005740, AL023553, Z83840, AC002094, AL121603, AL031296, Z97196, AL122020, AP000512, AC005821, AC005969, AC000003, AC007878, AL035703, AC004945, AC007324, AL033392, AC006312, AL024498, AC004223, AC010849, AC002429, AC004821, AC002369, AC004816, AC008079, AF129756, U80017, AC005019, AC005846, AC005071, AC009516, AC002310, D84394, AC006251, AP000513, AL133448, AL049766, AC005069, Z93020, AC004808, AC005668, AP001053, AC016025, AC005081, AL031289, AC005535, AC005332, AC004099, AC005225, AL078581, AC005523, AC005231, AC005899, U91319, AL080242, AL031281, AC002425, AC006127, AL096701, and AL022721.</p>
HNH0X09	5480	854882	1 - 691	15 - 705	AA179093, W05670, H75806, AL137564, and AB028998.
HNH0X10	5481	963545	1 - 509	15 - 523	

HNHOX31	5482	859820	1 - 509	15 - 523	
HNHOX89	5483	786411	1 - 504	15 - 518	
HNHOZ04	5484	923013	1 - 374	15 - 388	
HNHOZ90	5485	787488	1 - 644	15 - 658	Z56336.
HNHPC08	5486	952246	1 - 360	15 - 374	
HNHPC36	5487	859819	1 - 452	15 - 466	
HNHPC72	5488	772970	1 - 348	15 - 362	AA421740.
HNHPD04	5489	974103	1 - 489	15 - 503	
HNHPD07	5490	952244	1 - 520	15 - 534	
HNHPD13	5491	859815	1 - 480	15 - 494	AC005828.
HNHPE86	5492	784919	1 - 701	15 - 715	AA928156.
HNHPG61	5493	784432	1 - 516	15 - 530	AL041914, AA262042, R14254, AL041237, F13514, and AL133057.
HNHPG66	5494	859812	1 - 882	15 - 896	N70274, AI804923, AA934526, AI992261, AW140138, W88993, AI077351, AI793312, C06015, D80164, D80195, D51022, D59502, D80038, D81026, D80247, D59467, D59275, C14389, D80227, D58283, D80133, C15076, D80439, D80022, D80391, D59787, D80269, D80166, D80193, D59619, D80210, D80240, D80045, D50979, D59859, C14331, AA305409, AA305578, D51423, D51799, D80253, D80043, C14014, D81030, D59889, D80196, D80212, D80219, D80268, D80366, D80188, D80522, D50995, D59927, D80157, T03116, D57483, AI525923, AA809122, D45260, H67866, C03092, AW177440, AW178893, D58246, D80251, D59551, D59503, D80258, AI525917, T11417, AW375405, F13647, D59317, AW360811, AI525235, H67854, AI535686, AI525215, AI525920, AW360817, AW360834, C14227, D59627, C14973, AI525227, D80064, D80014, AW178906, T03269, AW179328, T48593, AW375406, AW378534, AI525925, AW179332, AW377672, AW179023, AW178905, AW177731, AW378528, AW178762, AW179019, AI525242, AW378533, AW378532, AA514184, AI557774, AI525912, AW377676, D59695, AW178907, AW178908, AI525237, D45273, Z21582, AW178914, AW178774, AA285331, AI557751, AW367950, D80168, C16955, AW378542, Z33452, T02974, D52291, AW378525, AW352163, C14298, AI525239, D51213, T03048, AI525228, D31458, AI525216, AI525238, AI525969, AI525903, AF058696, A82595, AB028859, AJ132110, AR060385, AR008278, A84916, AB002449, A62300, A62298, AR018138, I14842, I50126, I50132, I50128, I50133, AR054175, AR016691, AR016690, U46128, AR016514, X67155, Y17187, AR060138, A45456, Y17188, A94995, D26022, AR008277, AR008281, A26615, AR052274, A43192, Y12724, A63261, A43190, AR038669, A25909, AR066488, Y09669, AR066487, A70867, A67220, D89785, A78862, D34614, A30438, AR062872, AR008443, I79511, A64136, A68321, D88547, D50010, I82448, X68127, AR016808, X82626, AR025207, and AR060133.
HNHPG85	5495	783821	1 - 395	15 - 409	D80022, D80195, C06015, D80302, AA809122, AI525237, H67866, D58246, D80247, D81026,

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HNHPH29	5496	934456	1 - 486	15 - 500	
HOIAE91	5497	935322	1 - 548	15 - 562	AW450671, AA936632, AA373754, AW301553, AA887804, and AA523682.
HPSAA31	5498	739041	1 - 563	15 - 577	AA371521, and AA371520.
HPSAA50	5499	723558	1 - 299	15 - 313	AA371530, AA371532, AA283143, and AA985190.
HPSAA63	5500	536776	1 - 316	15 - 330	AA371537, AA371640, and AA371643.
HPSAB25	5501	677474	1 - 321	15 - 335	AA371618, AA371540, AA652942, AC005365, and AL080317.
HSATA03	5502	925082	1 - 309	15 - 323	
HSATA86	5503	683251	1 - 505	15 - 519	H64038, and W04139.
HSATE44	5504	666207	1 - 391	15 - 405	
HSATE89	5505	531280	1 - 392	15 - 406	AA916748.
HSATF05	5506	907593	1 - 328	15 - 342	A1568725, and AW084480.
HSATF79	5507	781718	1 - 233	15 - 247	
HSATJ56	5508	716434	1 - 654	15 - 668	R81464.
HSATJ84	5509	781405	1 - 380	15 - 394	N99795.
HSATM25	5510	688006	1 - 439	15 - 453	AC003689.
HSATM79	5511	677717	1 - 445	15 - 459	AC000119.
HSATQ28	5512	866951	1 - 365	15 - 379	H58978.
HSATQ76	5513	765376	1 - 569	15 - 583	AW022615, N51894, and D62269.
HSATR17	5514	888871	1 - 437	15 - 451	AI111179, and AF090944.
HSATR27	5515	713143	1 - 168	15 - 182	D63189.
HSATR32	5516	699586	1 - 609	15 - 623	AW401775.

HSATR76	5517	659994	1 - 488	15 - 502	HS5088.
HSATS23	5518	524369	1 - 288	15 - 302	AA502450, AI590404, AI278972, AI251024, AW028376, AW273201, AW273146, AA613761, AW238341, AW104163, F31670, AA338474, AA936099, AA364082, M77908, AA467740, AW023515, AW407679, AW409626, H92442, AI318548, AI567676, AA342029, AI344906, AI885134, AI754257, AA937618, AI445699, AA468135, AA533011, AA812133, AI053673, AW080118, AI434103, AW277125, AA219166, AA382171, AA743995, AA745336, AI572680, T34066, AA364199, AW149241, AA847340, AW07430, AI281622, AA570243, AI884404, AA707438, AW304592, AA707446, AI358557, AI032411, AI734119, AA489897, AA640305, AI370470, F25183, AA503459, AA668421, T03576, AI732720, AA300049, AA975894, AI538404, AA676462, AA730795, AA668148, AI003086, AA658890, AA468921, AI732327, AA487053, AI701898, AA303002, R95751, AW157424, AA172103, AI702049, AA846014, AW069110, AA328535, H51612, AA055647, AW265468, AI590442, AA309287, R33053, AI969090, AL138262, AA847341, AW148821, AI619727, AA663579, AI207744, AW192930, AA610644, AA365049, R12600, AA147521, AA362670, AL121039, AW021674, H47554, X84712, AW410844, AA829565, AA421536, AA991640, AW406139, AA657392, AW238242, AW409621, AI064968, AA829086, AA350081, AI744963, AA768079, AI521019, AL037723, AL037722, AI719372, AA984891, AI268818, Y18000, AC004882, AC005529, AP000493, U02057, AC004531, AP000689, AL049872, AC004999, AL034417, U91326, AC002544, AC005300, AC005736, AB003151, AL050318, AC005535, Z69366, AC005015, AC006449, AC004263, AC005409, AL132716, AF196972, AC005914, AC005695, Z83844, AL035086, AL049694, U07000, AC005519, AC006241, AC004887, AC002036, AL050307, AC004859, AL031657, AC007536, AC007537, AL008731, AL022316, AC004386, AC006077, AB025285, AL109613, AL020995, AF154840, L81576, AC004223, AC005325, AC002558, AL021391, AC007993, Z98256, AD000092, AL008710, AL109628, AL133448, AC004125, AB033024, AP000884, AC005412, AC006511, AC006057, AC005159, AC007227, AC007040, AC008372, AC004797, AL080233, AC005755, AC005839, AC004668, AC004770, AC004972, AC007036, AC002045, AC005565, AL049761, U89337, AC004674, AC005370, Z99716, AC007690, AL031680, AC004997, AL117258, AC007421, AC007387, AF111198, Z82208, AL121603, U52112, AC004968, AC004526, AC006360, AL050347, X02571, M12901, A91683, AC007564, AC003042, AC012085, AL132712, AC005531, AC004655, AC005355, AC003684, AL022165, AF001550, AC005585, AL049643, AC005067, AC004033, Z82198, AC007193, AL033524, AC005921, AB023051, Z97630, AC004890, AL023880, AC004228, AC002418, AC005284, AC002991, AC004896, AC005702, AL031295, AL021578, AL049869, AP000352, AC004233, AL035413, AF091512, AC006487, AC005500, AP000211, AP000133, AP000039, AP000107, AL121655, AP000547, AC002107, Z95116, AC000134, Z69374, AC003012, AC002997, AE000658, AL031587, AF111168, Z98051, AL035652, AC005211, AC004950, AC004975, AL049776, AP000502, AC006254, AL031311, AC006137, AC002492, Z93017, AC004560, AC006088,

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HSATS29	5519	689823	1 - 331	15 - 345	AC005799.
HSATS56	5520	732640	1 - 356	15 - 370	
HSATT96	5521	796565	1 - 409	15 - 423	
HSATV34	5522	732184	1 - 447	15 - 461	
HSATW22	5523	531171	1 - 316	15 - 330	AW166467, AI150813, AI051055, AW291572, AA186962, AL041305, R99223, AI028763, AI291690, AI692187, AL040743, AA489560, R99224, AB014596, AF176022, AP000252, AP000134, AP000212, and AP000031.
HSATX46	5524	866959	1 - 239	15 - 253	
HSAUA88	5525	757624	1 - 361	15 - 375	Z82206.
HSAUB19	5526	954055	1 - 227	15 - 241	
HSAUB90	5527	733714	1 - 117	15 - 131	AA480803, T24642, and AC004706.
HSAUD05	5528	932502	1 - 249	15 - 263	
HSAUD45	5529	531170	1 - 511	15 - 525	
HSAUE25	5530	571385	1 - 163	15 - 177	
HSAUE40	5531	866933	1 - 392	15 - 406	
HSAUF18	5532	527038	1 - 384	15 - 398	AA479823.
HSAUG15	5533	953628	1 - 907	15 - 921	AI700608, AI475748, AA261852, H43976, AA455641, AI435512, AA878284, AA721182, AA526613, AW073756, D56003, AW239128, AA367190, AW175589, AA248657, AA336678, AW402312, AA113904, and AL049610.
HSAUH65	5534	953873	1 - 357	15 - 371	
HSAUH69	5535	870437	1 - 971	15 - 985	N33174, AI333084, AA810196, AA810519, AA417898, N25355, N44958, N31476, AA491035, and AA743500.
HSAUI05	5536	856886	1 - 412	15 - 426	AI000925, AI261943, AA614341, AW376738, AI000930, AW136154, AA209435, AC005694, AC005527, AC005529, and AC002991.
HSAUI26	5537	950714	1 - 426	15 - 440	
HSAUL67	5538	866919	1 - 368	15 - 382	

HSAUQ94	5539	526936	1 - 461	15 - 475	
HSAUT77	5540	557848	1 - 151	15 - 165	AC004975.
HSAUW10	5541	967600	1 - 428	15 - 442	
HSAUW71	5542	537544	1 - 262	15 - 276	
HSAUZ38	5543	744899	1 - 666	15 - 680	FI3740, and AI913247.
HSAUZ57	5544	685253	1 - 693	15 - 707	R98418.
HSAVA44	5545	866900	1 - 198	15 - 212	AC003102, Z97635, AC008126, and AC005856.
HSAVA61	5546	742073	1 - 174	15 - 188	AA907167, AA910829, AA988986, AA903887, AA825361, AA045623, AI222950, AI215879, AI870657, AA902506, and AA916305.
HSAVB05	5547	932496	1 - 297	15 - 311	
HSAVB19	5548	866899	1 - 308	15 - 322	H80879, R69751, H80878, R70467, AC004985, and AL022158.
HSAVC41	5549	584978	1 - 255	15 - 269	
HSAVC76	5550	967286	1 - 311	15 - 325	
HSAVF35	5551	932462	1 - 264	15 - 278	
HSAVG81	5552	959949	1 - 574	15 - 588	AI637636, AW082668, T94015, AI332352, AA847421, AI565225, T93337, and AF115510.
HSAVH17	5553	417452	1 - 188	15 - 202	AC005189, and AC005532.
HSAVH95	5554	574243	1 - 564	15 - 578	AA481619, W88558, AA455714, AA455659, and AA481553.
HSAVI44	5555	715837	1 - 460	15 - 474	AW021987, and AC004056.
HSAVI46	5556	717837	1 - 448	15 - 462	
HSAVI59	5557	579060	1 - 364	15 - 378	
HSAVI77	5558	739521	1 - 335	15 - 349	
ISAVAL43	5559	714418	1 - 584	15 - 598	T95438, AA004549, T95461, T95342, R01904, R01953, T95357, and AA704164.
HSAVN07	5560	935797	1 - 221	15 - 235	AA731064, AW450807, AA513079, AA602113, AA503400, F36001, AA658915, AA844750, F24885, AI929819, T89864, F34389, AI748847, AI832751, F21165, AI929660, AA632963, F36287, F28779, F37620, AA627162, C00120, AP000046, AP000114, AP000303, AF193597, AF193607, AF161428, and AF161430.
HSAVN17	5561	920412	1 - 416	15 - 430	AC006468.
HSAVO37	5562	574709	1 - 339	15 - 353	
HSAVO53	5563	531111	1 - 235	15 - 249	
HSAVO82	5564	531398	1 - 118	15 - 132	
HSAVP10	5565	964950	1 - 402	15 - 416	
HSAVQ46	5566	574784	1 - 314	15 - 328	AW104664.
HSAVQ56	5567	522431	1 - 430	15 - 444	AI299938, and AL109798.
HSAVR06	5568	936049	1 - 87	15 - 101	
HSAVR74	5569	827090	1 - 213	15 - 227	
HSAVS17	5570	574269	1 - 112	15 - 126	



HSAVS46	5571	526756	1 - 419	15 - 433	
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HSAVS76	5572	86688	1 - 81	15 - 95	
HSAVT18	5573	920565	1 - 314	15 - 328	AW058430, W21392, AW079237, AW376931, H96580, M86143, AL109839, Z93016, AC009509, AC005519, AC004000, AC005532, X74962, AL031657, and AC004003.
HSAVT24	5574	577549	1 - 645	15 - 659	AI304948, and AC006430.
HSAVT95	5575	925582	1 - 220	15 - 234	AA828835.
HSAVU11	5576	967490	1 - 130	15 - 144	
HSAVU14	5577	920695	1 - 453	15 - 467	AW276782.
HSAVW44	5578	744267	1 - 443	15 - 457	
HSAVX96	5579	744614	1 - 636	15 - 650	
HSAVY34	5580	574287	1 - 350	15 - 364	
HSAVY58	5581	526958	1 - 295	15 - 309	
HSAVZ35	5582	842039	1 - 365	15 - 379	AA297496, AA302682, AA805018, AI904944, AI369076, AA302660, R08161, AI915081, AI054090, AI246061, AA713705, AA326452, AW021007, AA226770, AW069412, H02532, AA862029, AW265688, F17537, H71678, AA586433, AI249853, AA225795, AA744095, AL048275, AI536834, AA493789, AA744423, H53217, AW272740, T83057, AA599199, AI754170, AA156147, AI635609, AI064786, AA076418, AA864426, AI284543, AA373861, AI254770, AA626595, AW169038, AI251034, AA381787, AA904211, F00564, N94342, AA095721, AI250552, AA056248, AA566084, N29936, AI270647, W24312, R35259, AA513219, AA282219, AA148197, AA834807, AA302978, AW192648, AL039801, AA503018, AA831801, AI866971, AI251203, AI475724, AI251284, AA668166, AA714073, AA683069, AA654778, AA857812, AI312090, AA525807, AI312784, AA702717, N73060, AL121782, AP000692, AC000025, AC005856, AL096763, Z85987, AC006511, AC005702, X87344, AL049835, AC006312, AL022721, AC006960, AC005527, Z98941, AL049780, AL139054, AL034549, AC006010, AP000555, I34294, AC006241, AC007073, AL035420, AC005529, AL035072, AL109628, U91318, AC004448, AC007731, AC005500, AC004019, AF064861, AF111168, AC002394, AC005602, M87889, AL031680, AC012627, AC004985, AC004000, AL109839, AC007199, AC004832, U95743, AC004834, AC005823, AC004531, AC005868, AC007201, AL132642, AC004655, AC002470, AL132777, AC005829, U02051, AC006254, AC003109, AC003025, AC006057, Z95704, AL022320, AF139813, AC007637, AC006115, AC005257,

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HSAVZ65	5583	574192	1 - 314	15 - 328	
HSAWA25	5584	577281	1 - 307	15 - 321	AA505186.
HSAWC89	5585	785988	1 - 926	15 - 940	AA134230, AI797676, AF168132, and AL080140.
HSAWG75	5586	574223	1 - 148	15 - 162	
HSAWH47	5587	720535	1 - 551	15 - 565	T85672.
HSAWI18	5588	666842	1 - 325	15 - 339	
HSAWI50	5589	742713	1 - 372	15 - 386	AC003681, AP000952, and AC008124.
HSAWJ36	5590	866874	1 - 911	15 - 925	AI935717, AI038558, R73057, AW450490, AW235225, AI650526, AI633900, AI493578, AA781347, AI252617, AI758094, AA977718, R73058, and AI344281.
HSAWI93	5591	751429	1 - 171	15 - 185	
HSAWL80	5592	792893	1 - 310	15 - 324	AP000150, AP000009, and D83253.
HSAWN67	5593	883825	1 - 652	15 - 666	H67030, H68112, AI358229, AW406755, AI365988, F29989, AA501614, AA657835, AA525153, AW023111, AI278972, AA720732, AA176605, AA659535, AA879053, AW168433, AA634786, AA551798, AA573020, AA715814, AI241976, AA827960, AA579184, AA136829, AI358089, AA574286, AW438643, AI689019, AI275183, AA878140, AA772016, T29180, U18399, U67822, U67823, AC007298, AC007312, X55922, AP000692, S48196, AL133245, U85195, AC005358, AE000658, D87008, L81893, D88268, AC004921, AL133289, AC005620, AC004167, AC001066.

HSAXT91	5594	522474	1 - 241	15 - 255	AC006120, Z54334, AL121603, AC005037, AC005678, AL020997, AC006077, AL109627, AC004805, AC003041, AC005095, AC004019, AL035448, M87923, AC005681, AC002369, AC005777, AC004030, AC005089, AC005212, AL121825, AC005288, AC004596, AP000031, AL021394, AL008629, AL022320, AC007666, AL035405, S42659, AC006111, AL020996, AP000255, AC005696, AC002316, AC004150, AL034548, AC007191, L47228, AC000353, AC005527, AL080242, AC002039, AC004472, AC005944, AC007707, AC004491, AB023049, Z93930, U67274, AC004814, AC005803, AC005004, AL133163, AC006480, AC005971, U78027, AC004263, AC002400, AP000354, AC004996, AP000503, AC002350, AL031005, U16300, AC005911, AC005740, AC006461, AP000113, AC004678, AC007387, AP000135, U80017, U95740, AC005013, AF165926, AC004020, AL136295, AL109628, AL008582, Z68756, AC006530, AP000553, AL034376, AC007688, AC004234, AL049780, Z94162, AL035653, AF045533, AL021154, AC007510, AL050318, X53550, AC005839, AP000359, AC005703, AF001549, AF045555, AL078477, AC005529, AC007308, AC006121, AC005104, AL022067, AC007731, AF134726, AC007216, AC004933, AC004802, AC002544, AC005500, AF015166, AC007292, AF196969, AP000689, AC004821, AF199339, AP000023, AL049757, AJ003147, AC005215, AL022329, AL096803, AL049776, AL021397, Z98884, AC004222, AL035072, AC006511, AF190465, AC005993, AC004531, AC005412, U75285, D84394, Z83822, AL034429, AL109758, AC005081, Z98950, AP000688, AC002430, AC007225, AC004985, AC005102, AC005701, and Z85986.
HSAXU96	5595	577267	1 - 436	15 - 450	
HSAXV18	5596	666841	1 - 138	15 - 152	AA835667, and AI936498.
HSAXW11	5597	967489	1 - 494	15 - 508	
HSAXB47	5598	720536	1 - 795	15 - 809	
HSAXB84	5599	574172	1 - 402	15 - 416	
HSAXB95	5600	796006	1 - 316	15 - 330	
HSAXC60	5601	579044	1 - 401	15 - 415	F28958, F37192, and F00608.
HSAXD03	5602	924900	1 - 241	15 - 255	
HSAXD08	5603	959939	1 - 369	15 - 383	
HSAXD18	5604	575543	1 - 126	15 - 140	AL109628.
HSAXD73	5605	574274	1 - 383	15 - 397	R63784.
HSAXD75	5606	526777	1 - 339	15 - 353	AC004675, and AF088219.
HSAXF03	5607	924899	1 - 280	15 - 294	AA281106, and AC005488.
HSAXG18	5608	574165	1 - 375	15 - 389	T07213, AA483211, AI689564, AL046171, H81283, F35659, AA604326, AI446474, AA443065, AW086465, AA927637, AA593359, N55273, AA605274, AL131166, AW168433, AA610420, H57381, R53899, AA863453, AA640739, R77158, AW238016, AW238278, T69435, R79157,

					AI200051, AI832577, W35195, AA166835, W23546, AA630030, T71030, AI672135, AA931647, F23325, AI141675, AI049616, AI561335, AI860020, AA703891, N66684, H81505, AW270284, AA770072, AA834712, AA020729, AA357552, AA084624, AI880168, AA242863, AI352078, AI758582, AA558227, AW169687, AA557854, AI349874, T94866, AA937686, F26152, T55236, AW406659, AA678443, AA346454, AA663306, T94116, AI345522, AA658235, AI683294, AA587662, AI801591, AA342681, AI344844, AA640053, T71998, AI298977, AI225141, AI251111, H77751, AA515224, AA525406, AA581903, Z85986, AC007207, AC002551, AP000688, AL035668, AL031393, AC004854, U91325, AB000880, AC004967, AC002369, AC005081, AC007298, AC005799, AL022476, AF045555, AC006031, AP000507, AC005839, U20210, AL031284, AC007114, AL021407, AB000882, AC004896, Z83844, AC006480, L78833, AL021453, AC007110, AC004895, AC007358, AC004655, AC004841, AL023284, AF109907, AC005911, AC005089, AC004941, AL031428, AP000008, AC004894, AL031432, AC005243, AP000704, AC005274, AC005619, AL008634, AP000014, Z97198, AC005377, AC005881, AP000556, AL035079, AL031577, AL031643, AC009300, AL110122, AL050348, AC005874, AF134471, AC005913, AC006076, AC006333, AL121825, Z84718, AF002223, U95626, AF044083, AC005280, AC005922, AL022069, AP000245, U89335, AC004531, AL035682, AL031683, AL021397, AJ006995, AC004659, AF053356, AF124731, AC004776, AC004972, AC018769, AC000120, AB020859, AC008033, AC006241, AC005072, AC006989, AL022396, AL133382, Z84497, AP000657, AL031120, AC009241, AC016831, AC006287, AC006285, AP000966, AC006958, AC005562, AC005822, AC006075, AC006039, AC004931, AB026898, AC002087, AC005703, AL022328, AC004467, AC004449, Z92540, AC011592, and AC008072. AI469913, AC002375, AC007327, AC002365, AP000067, AC004551, AC004223, AC002364, AL008582, AL049844, AL049650, AC002300, AL022165, AL024498, AL021391, and AC005484.
HSAXG30	5609	574280	1 - 456	15 - 470	
HSAXI07	5610	953871	1 - 236	15 - 250	T53845, and C04682.
HSAXI47	5611	574159	1 - 444	15 - 458	AA846046, AA349016, AA230221, AA299100, AL119063, AA015948, N55076, AW194061, AL281622, AL046620, AW439724, H57802, W27084, AI446623, AA218874, AI251024, AA579281, AW069273, AA831919, AW083408, AA947352, AW029626, AI888050, AA639056, AI125143, AA714190, AA550959, AA018258, AI309059, AA351868, AA487209, AA338237, AA320380, T68762, AA338238, T73016, AA368329, AA701131, AI620014, AA363195, AA553409, M86139, AC005069, AC005531, AC007057, AC004997, AC004953, AC005585, Z99716, AP000116, AF111169, AC005911, AC007263, AL031291, AC005925, AL035462, AC007308, AC005015, AC005200, AL109952, AL022316, AC006285, AC004531, AC007243, AL035411, AC005839, AC004526, AL122020, AL133245, AC010168, AC006130, AC006538, AC004890, AC000134, AF143866, AC002553, AL022336, AC007637, AL135744, AC004685, AL031295, AC005799, AD000864, AR036572, U91328, AL035684, AC006512, Z97876, AC002429, AC005821, AL024498, AC007488, U62631, AC005368, AL049694, AL009181,

HSAXI62	5612	531114	1 - 411	15 - 425	AC005924, AC005409, AC002395, AC008062, AC006211, AP000563, AC005666, Z81364, AF001549, AC008041, AC005971, AL022318, AC004815, AP000211, AP000133, AC005346, AC006480, AL133448, AP000557, AL109984, AL022312, Z95116, AC004035, AC005362, AC006088, AL117355, AC005537, AC000353, AC004938, AF053356, U07561, AB020865, AC006312, AC006597, AL118516, Z49155, Z97056, AC005089, AC004796, AC004963, AL035071, AC005159, AC007207, AC005280, AC002425, AL049872, AB032988, AC004448, AC005153, AP000962, AL035072, L31948, Z97184, Z83840, Z98052, AC012085, AC007666, AC002401, AC005575, AP000049, AL022323, AC007371, AC003025, AC003048, AL079340, AL121658, AC005755, AL034553, AP000311, AC000052, AP000362, AC005049, AC005300, Z82212, AL022165, AC007193, AL033376, AC005589, U63721, AP000692, AC002094, Z93244, AC004084, AF139813, AC015853, AC002310, AL031659, AC005031, AC008101, AC004895, AL078581, AC005484, AC005943, AC006515, AC003071, AC002991, AP000048, AL021579, AL035454, AL035443, AC007546, AC016027, AF067844, AP000359, AC007793, AC016830, Z93017, AC004999, AL049759, U51561, AC001643, AF016898, AC004228, AC005730, AL050350, AC002319, AL022238, AC006077, U07562, L81394, AC010205, X99832, Z84466, AC004967, AC007286, AC010170, AL022328, AP000044, AL096712, AB023048, AC005520, AL031737, AC004858, AF109907, AC000029, AL049569, AC005588, AF001550, Z99127, AL049653, AC002551, AC006958, AL008726, AL035445, Z97053, AC001226, Z85987, Z97054, AC005516, AC002126, AC005182, AC002470, AC004805, U91327, AP000031, U73169, and AB001523.
HSAXI25	5613	964753	1 - 228	15 - 242	T98562, and AL031778.
HSAXL83	5614	866840	1 - 350	15 - 364	AC005971.
HSAXM33	5615	866837	1 - 368	15 - 382	
HSAXM34	5616	526939	1 - 242	15 - 256	AC003007, and AC005632.
HSAXM44	5617	574173	1 - 316	15 - 330	
HSAXM68	5618	754061	1 - 310	15 - 324	
HSAXM91	5619	784470	1 - 229	15 - 243	AC004815.
HSAXN51	5620	574286	1 - 458	15 - 472	
HSAXO52	5621	726053	1 - 585	15 - 599	AA866609.
HSAXO53	5622	727491	1 - 309	15 - 323	AW009820, and AA568195.
HSAXO65	5623	713784	1 - 244	15 - 258	AC002331, AL034350, and AL033397.
HSAXP51	5624	725673	1 - 325	15 - 339	
HSAXR08	5625	959441	1 - 662	15 - 676	T78958, AA553524, T78906, and AL021453.
HSAXR83	5626	866831	1 - 430	15 - 444	AW294886.
HSAXS44	5627	715896	1 - 327	15 - 341	

HSAYA60	5628	650857	1 - 356	15 - 370	AL393358, AW241990, T93203, AA826386, H92152, AA665661, AA137025, AA534089, AA071151, R00203, AA757621, AL138252, AF207550, AL031984, AC005081, Z81367, Z95115, AC008124, AL031291, AC004491, AC005529, AC002350, AL035685, AC004882, AC005622, AC005015, AL049576, AC006001, X86011, AC006515, AC004382, AL049569, U89335, Y10196, AC005011, AC008044, AF196971, AL022316, AL031846, AF001548, AL031864, U91326, AP000493, AC006449, AC005618, AC003041, AL133304, AL031283, AC004536, AC007240, Z97632, and AC003010.
HSAYA80	5629	751139	1 - 620	15 - 634	AL031733.
HSAYA95	5630	856883	1 - 406	15 - 420	
HSAYC17	5631	663910	1 - 590	15 - 604	AF062359, and AC004049.
HSAYC39	5632	705409	1 - 362	15 - 376	
HSAYC84	5633	723425	1 - 425	15 - 439	R31954, R10634, and AW195428.
HSAYG62	5634	745692	1 - 390	15 - 404	
HSAYH09	5635	971427	1 - 613	15 - 627	AC003663.
HSAYH38	5636	731434	1 - 737	15 - 751	AL431434, AW162288, F13749, AL696793, AL245693, AL537538, AA284247, AL119691, N69462, AA176605, T06207, AA720732, AW304580, AW408767, AA486877, AA937427, AA524616, AA879053, AL866911, AL046746, N24909, AA448838, AL751162, AA493226, N22058, AW270258, AA587991, AL040051, AA806796, Z79422, U67810, Z30979, AC007040, AL031848, Z22650, AL049872, X55931, AL031282, U57005, AC002347, X74558, Z97206, AC006130, AC005786, AC005089, AC006241, AC006441, AL133382, AL033522, AC002301, Z83844, AC007845, AC000159, AC000080, AC004854, AC004858, AC004821, AL096701, AL031228, AL034420, AC003110, AC016025, AC006273, AC007242, AL135783, AC004019, Z94044, Z85986, AL049780, AC005280, AC007435, AL049869, AL133243, Z83826, AC000025, AC005527, AL024498, AL135744, AC004263, Z69917, AC000118, AC004974, AC004526, AC002544, AF109907, AL121658, AC002554, Z85987, AC004067, AC006312, AC005696, AC005663, AL139054, AC002369, AC005486, AC002404, AC002425, AL034423, AL122020, AC005778, AC006120, Z30994, AC004598, AC002395, Z84487, AL096791, AC005921, AB026906, AC005348, AC005920, AC006160, AC016831, AL031686, AJ246003, AC005209, AC005940, AP000503, AL031311, AL050312, AC005071, AL133448, AL031255, AC009044, AL022336, AC007057, M63796, Z93023, AC005288, AL080243, AC006064, AC004499, AC002350, AL008582, AL035587, AC007226, AC005529, AC005939, AC005225, AC004257, AL008635, AC002455, AC003029, AJ011930, U63721, AL022238, AL049830, AF045533, AL022318, AC004752, AC006001, AC004601, Z83851, AC007388, AL109984, AC005722, AC006211, AC000052, AC007731, AC005684, AL035361, AC005954, AF134726, AF001549, AB000882, AL034402, AC005500, AP000509, AF205588, AC005179, AC005387, AC004834, AC003042, U63630, AC004449, AL035652, Z95114, AC005632, AC007308, AC006126, AC007773, AC003109, AF129756, AC016026, AC004791, AF064864, AC004647, AC004890,

						AC003982, AP000506, AC005520, Z98048, AL031276, AC005899, Z82179, AC004815, and AL049694.
HSAYK03	5637	881282	1 - 430	15 - 444		
HSAYK26	5638	681730	1 - 343	15 - 357		AL049569.
HSAYK79	5639	699056	1 - 356	15 - 370		
HSAYL46	5640	720352	1 - 593	15 - 607		AI797238, and W85776.
HSAYL64	5641	765847	1 - 346	15 - 360		
HSAYL72	5642	951025	1 - 267	15 - 281		
HSAYL93	5643	920778	1 - 336	15 - 350		AL031657.
HSAYM75	5644	719241	1 - 351	15 - 365		
HSAYM91	5645	959486	1 - 362	15 - 376		
HSAYN79	5646	471037	1 - 665	15 - 679		
HSAYO71	5647	745703	1 - 339	15 - 353		
HSAYR35	5648	675897	1 - 212	15 - 226		D83781.
HSAYS26	5649	681725	1 - 372	15 - 386		AI824918, C14298, D51213, D80168, D80949, D59627, D51079, D80064, D59695, D81111, D52291, D59484, D58246, D45273, D80228, C16955, T03048, D80219, C14407, D59619, C14227, D80210, D80240, D59503, D80290, AW360780, D80258, D80014, D81030, D80212, D58101, D80439, D57483, D59889, D59653, D80195, T11417, C15076, D80251, AI535686, D80166, D80188, AW377669, AA305409, Z33452, D59859, D59610, AI557774, D80366, D80196, D51423, AW352172, D51799, D80253, C14389, D80024, D80247, D80045, C14077, D52059, AA305578, D80269, D80022, D58283, D51022, AI557751, D80391, D80164, D50979, D59787, D59502, D50995, C14331, D59467, D59275, D80043, D80227, D80241, D80133, D80157, D59927, D81026, D80302, D80038, H67866, D80193, AA514184, T02974, H67854, C14014, D51060, D51053, AA514186, AW377661, D80378, D80268, D80248, C05763, AI525216, C06015, AA514188, AI525228, D51103, C05695, Z21582, D51221, D80522, C75259, C14973, F13647, AA809122, D59551, C03092, D59474, AI525238, C04682, N66429, C14344, D51759, Z30160, D59373, D59317, AI525215, AI525222, C14957, D45260, T03116, C14046, AI525912, AI525969, H67858, AI525235, AI525920, T02868, C13958, D60010, AI525917, AI525242, AI535961, D31458, AI525239, D50981, AI525227, F13796, AI525923, AI525978, AI525219, AI525237, AI525903, AI525925, AR016808, X64588, AB010386, A62298, AR018138, A84916, A62300, AJ132110, AR008278, AF058696, AB019242, U37689, A82595, I81198, AB028859, AB002449, A47134, AR060385, I14842, AR008277, AR008281, I79511, AR054175, and X72378.
HSAYS54	5650	730688	1 - 569	15 - 583		AA256081, AA594396, and AL035684.
HSAYW12	5651	856909	1 - 391	15 - 405		AI809688, and AC007201.
HSAYW75	5652	866818	1 - 290	15 - 304		
HSAZC11	5653	964994	1 - 343	15 - 357		



HSAZC18	5654	666442	1 - 362	15 - 376	H92704, H94751, AA070456, R92658, AA465689, AA587113, Z85988, Z82188, AP000466, AL035461, U73641, AC005057, AC005484, AC004797, Z92709, AC005549, AP000501, Z84466, AL096791, Z98304, AP000155, Z68164, AC005370, AC005746, AF001549, AC007023, AC007637, AC004596, AL109798, Z82172, AC004253, AL035249, Z94044, Z98946, AF064483, AF064484, AL031774, AF067844, AL109627, AC002314, AC006077, AP000124, AP000171, AP000056, AP000330, AL109628, AP000193, AP000033, Z82194, and AC001226.
HSAZC33	5655	702423	1 - 355	15 - 369	AP000269, AP000032, and AP000103.
HSAZC41	5656	712326	1 - 334	15 - 348	AC007349.
HSAZC69	5657	757577	1 - 217	15 - 231	AA601919, AW130614, AA653964, AA828680, AA551509, AA775416, W07032, AL372413, AA428414, AA593060, AA663634, AA723017, F26152, T28550, AL252207, AL510838, AA658235, AA828704, AA344959, AA634227, N43757, AA486680, AL284684, AA025083, T52732, AA450199, C19058, AA320748, AL921649, AA310158, AL376100, AA365347, AA634855, AA301813, AA501600, AL254153, AL453383, AW074059, AL356904, AL564284, AW304531, AA326441, AL547286, AL922654, AA989126, AA776936, AW247132, AL216799, AA776921, AL270149, AA465321, AA372875, AL378729, AL037554, AL079667, AA372106, AL251949, C17838, AL037910, AL254626, AL251996, AL252979, AL254937, AA828984, AL254440, N70442, AL254798, AA669634, AW269639, AL252112, T47348, AW086251, AL252828, AA639326, AL857261, AA984111, AL251380, AL251298, AL251598, AL570138, AL252933, AL254658, AL223508, AA535661, AL241970, AL254673, AA083136, AW086334, H58672, AA353595, AL251976, AA632612, AL270343, AL251968, AA584749, AW086356, AW086335, AL133448, AL031587, AC004230, AL049613, X03272, AC011604, AL109798, AL049830, AC002073, AC006064, L42240, AC006128, AL079340, AL031736, AL078474, X98288, AB017602, AC005703, AC005516, AC006141, AB016897, AC002286, AC002124, AP000359, AP000692, AL121603, AJ002227, Z73358, AP000310, Z99755, M62424, AR025392, AF131217, AL035681, AL021579, AC005911, AL035684, AL109984, AC004858, AC006165, AL035413, AC004841, U46117, U66059, AC005736, AC006277, Z15025, AC002041, AJ006995, AL008638, AC006449, AC005215, AC004741, AC007688, AC004817, AF190465, U95740, AL109939, AC004383, AC005071, D00591, AF109907, AC004647, AP000116, AL031722, AC005533, U47924, AC016026, AC005251, AC000392, AC004941, AC005358, AC004010, AL121934, AC004907, AC005971, AP000553, AC009516, AC006312, AL031846, AL109799, AL049757, U73641, AC004098, AC000095, Z82182, AL035464, AC004990, AL021918, AL079295, AP000252, AC006464, Z82190, AC003977, AL049776, AB023051, AL031178, AC004712, AC006040, AC004895, AC004685, AC006455, AC006285, AP000212, AC007536, AC009300, Z98884, AC004478, AC006241, AC005701, Z97352, U96409, AL009031, Z98950, AL021546, AC006116, AC002326, AF124731, AL008629, AF064861, AC005838, AP000512, AC004814, Z86061, AC005368, AC006538, AL022320, AC005565, Z75890, AC003003, AC002527, AC000353, AC005288, AC006084, AC005837, AP001038, AP001040, AP000141,

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HSAZC70	5658	866814	1 - 224	15 - 238	AW170254, AA329068, H85372, T85640, M85706, T05004, D82407, and AL042605.
HSAZC72	5659	509611	1 - 352	15 - 366	AA460367, T34066, AL810488, AA632869, AL360630, AL823533, AL823535, AA837325, T10218, AL038977, AA363957, AW070476, AA613623, AL281401, AA748102, T05617, AA557911, D82321, AL078409, AW169414, AL312424, AA525332, AL379978, AL292317, AC008928, AC008124, AC009509, AC006079, AL008715, AL031283, AC002045, AC004859, AC006121, AC006016, U95740, AC004750, AC005568, AC006381, AC002365, AF123462, AC004668, AL022165, AC004703, AC006487, AL034421, AC008134, Z95703, AC007551, AC004552, AP000503, Z83840, AF134726, AC007559, AL020998, AC005885, AL117338, AC005702, AP000350, AC005952, AC007226, AC005829, AC002470, AC004941, AC009464, AC007199, Z98749, AC005621, Z98036, AL049843, AL049759, AC005409, AL050308, AC005349, AC007193, AL080243, AL080250, AC006064, AC004990, Z98950, AL050322, AC007395, AF109907, AC005217, AL035079, AC002984, AD001527, AC002996, AC007308, AC002039, Z98048, AP000008, AP000704, AC022517, AC005531, AL049776, AC002395, AC005512, AL035420, AC002472, AC002477, AL121591, AP000308, AL031186, AP000048, AC004656, AC004695, AC004821, AC005696, AC004929, AC003029, AC009263, AC003071, AC004159, AF031075, Z83839, AC006323, AC004002, AC005856, AC005914, AC003682, AC007386, AC006255, A98026, Z81000, AP000279, AP000106, AP000038, AC002431, AC007388, AC003035, AC004817, AL022151, AF045555, AL034369, Z93241, AP000353, AC001231, AC002381, AC005081, AL035070, AC008072, AF002994, AC004042, Z82190, AL031466, AC002407, AC006061, AC005800, AC006006, AC004843, AC007681, AC004383, AC002312, and AL133246.
HSAZD30	5661	692708	1 - 300	15 - 314	
HSAZE47	5662	887420	1 - 503	15 - 517	D57483, D58283, D51423, D80043, D59275, D80253, D80166, D80195, D80022, D59619, D80210, D51799, D80391, D80240, D80227, D59859, D59502, D59889, D80212, D80196, D80188, D80219, D80038, D59927, D81030, D80269, C14331, C14389, D80366, D59787, D80193, D50979, D59610, D59467, D80164, C14429, D50995, C15076, AA305409, D80024, D80378, D80241, D80045, T03269, C75259, C14014, D51060, D80251, AW178893, D80134, D51022, AW179328, AA305578, AW177440, D81026, AA514188, D80248, D51250, F13647,

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HSAZE66	5663	725704	1 - 510	15 - 524	

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HSAZF25	5664	787070	1 - 386	15 - 400	AC004504.
HSAZF47	5665	719615	1 - 413	15 - 427	
HSAZG04	5666	927161	1 - 398	15 - 412	AA885793, AL1719268, AA147540, AA156247, AW084036, AA493947, AL049245, AF134726, AC006130, AC006084, AC007216, AF146367, AL021578, Z97196, AF124523, AP001053, AP000501, AC004923, AL049713, AL078460, AC005587, U91322, AC004814, Z81365, AC002978, AB020868, AL021395, AL133245, and AP000555.
HSAZG53	5667	727729	1 - 281	15 - 295	N63363, AC004216, AC005682, AL031291, AL109798, AC006263, and AL033527.
HSAZH64	5668	730784	1 - 334	15 - 348	
HSAZI04	5669	927167	1 - 488	15 - 502	
HSAZK83	5670	781717	1 - 196	15 - 210	
HSAZN07	5671	847802	1 - 387	15 - 401	AL561116, AA507682, AA492198, AA301813, AA601995, AA601623, R24915, AA657672, AA723017, AJ824562, AL049986, N66026, AW268300, AL537955, AA634013, F17700, F23327,

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HSAZP34	5672	796044	1 - 482	15 - 496	
HSAZQ04	5673	927174	1 - 438	15 - 452	
HSMB A04	5674	927420	1 - 320	15 - 334	
HSMB A53	5675	727597	1 - 332	15 - 346	
HSMB B53	5676	964887	1 - 142	15 - 156	
HSMB D29	5677	690390	1 - 560	15 - 574	
HSQFR23	5678	676362	1 - 425	15 - 439	
HSYAD19	5679	668590	1 - 118	15 - 132	

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HSYBC05	5680	920174	1 - 644	15 - 658		T20203, AA251849, and AW152678.
HSYBF51	5681	883699	1 - 446	15 - 460		AL035409.
HSYBL15	5682	660053	1 - 551	15 - 565		AA370052, and AF021935.
HSYBL77	5683	727842	1 - 334	15 - 348		T96708, and AW179197.
HSYCX75	5684	870939	1 - 363	15 - 377		
HSYDF85	5685	783730	1 - 418	15 - 432		AA381777.
HSYDP04	5686	970789	1 - 490	15 - 504		AF113615.
HTISC71	5687	792728	1 - 442	15 - 456		
HT2AB63	5688	518444	1 - 339	15 - 353		AA380880, AA380894, AA372958, AA730872, AA480792, AI824787, AA345665, AW075897, AW085751, AA297498, AA565338, AA147397, AA070614, AL046110, AW087537, AA330435, AA55131, AI285521, AI866422, AA551968, C14614, AI049845, AA586474, AI720671, R22196, AI338992, H48670, AI754064, AI086603, AI684335, AA071173, AW173443, AC006512, AC006130, AC005392, Z81308, AL049758, AL031291, AL133448, U29462, AL008723, AL031255, AP000553, AC009516, AC006597, AP000511, AC005048, AC009263, AC002395, AJ010770, AL031427, AC005081, AC007055, AC004542, Z93023, AL022316, Z95116, AC005694, AC006449, AC005082, AL031315, AC007199, X69907, AC007899, AC005730, AL049712, Z86090, AC007358, AC015853, AL034430, AC005527, AL049757, AC005828, AF053356, AL008718, Z93783, AC004821, AL117338, AL079295, AC005736, AL031114, AC004875, AC002470, AC005280, U78027, AL132857, AC004841, AP000201, AC004998, AC005358, AL035422, AC005033, AC004796, AC007688, AL022400, AL122020, AL031311, AP000097, AC005666, AC005297, Z97056, AC005154, AC007227, AP000240, AC005529, AC016831, AC006544, AF030876, AL139054, AC005247, AC004030, AC005180, AF196779, AL034420, AC007684, AC007845, AL020993, L78810, AC007686, AC008079, AF001550, U52112, AC016025, Z99716, AC016026, AL031659, AL023807, AC005067, AP000350, AC005399, AC006261, Z82215, AL022165, AF067844, AC003108, AL049653, AL078463, AC004019, AC005245, AC005969, AC004079, AC005209, AC002316, AB023050, AL121655, AL132987, AC003101, Z98048, AF205588, AL049874, AL096791, AL022398, AC004526, AC004651, AL022328, AC006050, AL022322, AC005291, AC004223, AC005274, AL022313, AL031432, AL035658, AC002045, AL024508, AC007637, AL121603, AC005562, AC005914, AC007731, AL133163, AC004150, AC006211, AC004983, AC008044, AL049777, Z98742, AC004854, AC004812, AC007685, AC007397, AC005102, AC005015, Z95113, AC005823, AC007541, AL035455, AL031767, AC005243, AC008282, AC007240, AC006543, Z93017, AC007253, AL021154, AP000248, AC003667, AC003007, AC007676, AC006167, AC020663, AL050321, AC004834, AL096763, AC011311, AC003962, AP000512, AC007993, AL031575,

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HT2SA18	5689	522773	1 - 430	15 - 444		N55479, AA701600, and AA249475.
HT2SF05	5690	932853	1 - 534	15 - 548		AC005137.
HT2SF45	5691	522759	1 - 307	15 - 321		
HT2SG36	5692	870913	1 - 432	15 - 446		AW007604, and AL021938.
HT2SG66	5693	522753	1 - 320	15 - 334		
HT3AG28	5694	973645	1 - 225	15 - 239		AW297280.
HT3AH13	5695	527913	1 - 406	15 - 420		AA601968.
HT3BA84	5696	509190	1 - 398	15 - 412		AA380995.
HT3BB93	5697	530750	1 - 252	15 - 266		
HT3BC30	5698	691009	1 - 327	15 - 341		
HT3BF34	5699	534887	1 - 280	15 - 294		AC004111.
HT3BG05	5700	932557	1 - 352	15 - 366		
HT3BG34	5701	527779	1 - 229	15 - 243		
HT3SA07	5702	954360	1 - 315	15 - 329		
HT3SB56	5703	958400	1 - 939	15 - 953		AA479273, AI831952, AI674793, AI369244, AI762813, AI498858, F25843, AA694320, R85554, T85554, R87717, R28878, and AF001548.
HT3SF46	5704	522600	1 - 300	15 - 314		
HT3SF93	5705	791423	1 - 515	15 - 529		AA143077, AI560342, and AC005781.
HT3SG30	5706	522532	1 - 353	15 - 367		
HT4CF32	5707	887174	1 - 1695	15 - 1709		AI347001, AI343380, AI693849, AI829933, AI394727, AA604808, AA729929, AI693841, AW293065, AA748867, AI745694, AF116509, AF116510, AF116508, AF218235, AF147782, AF175387, and Z84484.
HT4CL83	5708	974117	1 - 476	15 - 490		
HT4CM20	5709	805558	1 - 435	15 - 449		H50788, AW404210, AA355417, and AB018335.
HT4FN75	5710	686279	1 - 114	15 - 128		
HT4FS23	5711	952837	1 - 231	15 - 245		
HT4FV06	5712	935056	1 - 73	15 - 87		
HT4GF30	5713	870887	1 - 395	15 - 409		AI871007, AA773904, AI127475, AI523587, AI862655, AI830621, AW134689, AI768600, AW274750, AA142876, AI825831, AA633463, AI307774, AI916645, AA576383, AA143146, AI334590, AI867665, and AI867677.
HT4GJ85	5714	909971	1 - 514	15 - 528		AA306449, Z97832, and X96705.
HT4SB45	5715	522502	1 - 385	15 - 399		
HT4SE86	5716	531561	1 - 409	15 - 423		AA381059, and AC005344.

HT4TB12	5717	870955	1 - 263	15 - 277	AA236660, AA381041, AW001285, AI372981, AI819838, AI719948, AI571409, AI597639, AI356384, AA827059, AI356548, AW275578, AA971646, AW274489, AI863800, AI806948, H41568, AI311085, H41515, AA953361, AI498787, AA701412, and AD000671.
HT5AD70	5718	960050	1 - 154	15 - 168	AA381071, AA381084, and AA380862.
HT5AH76	5719	921539	1 - 120	15 - 134	
HT5AI96	5720	728624	1 - 76	15 - 90	
HT5EA69	5721	952359	1 - 475	15 - 489	R34942.
HT5EU04	5722	531205	1 - 467	15 - 481	AF017104, and AC016831.
HT5EU59	5723	739092	1 - 341	15 - 355	
HT5FD31	5724	697721	1 - 323	15 - 337	
HTAAA68	5725	733636	1 - 307	15 - 321	AA381204.
HTAAA74	5726	960479	1 - 777	15 - 791	AA167683, AA381245, AA381209, AA381208, and AC000159.
HTAAC05	5727	932913	1 - 432	15 - 446	AA381237, AA381536, AA381939, AA381906, AA381885, H72587, H45806, AI183392, AA569448, AA287046, AA355128, AI936092, AA740219, AA745373, AW128881, AI590404, R53995, N76031, AA381687, AA767571, C16638, AW269071, AI419337, AI361090, AA363968, AW271095, AW302832, AI421950, AI284536, AI251563, AI252141, AI733946, AW021007, AI733930, AI792695, AI792746, AI792842, AW026305, AI252190, AI792856, AA485289, AW151549, AA373861, AW090629, F09631, AA206594, AA453151, AI2466061, AA486352, H68328, AW440709, AI979126, AW117895, AI054090, T65131, AI251241, AI249853, AI884861, AI284543, AI254770, AI251944, AI251034, AI251203, AI251284, AI250552, AA598608, AA491361, AI354341, AW337805, F25640, AA814719, AA078088, T89662, AI042869, AA729004, AA381652, AA381713, F30497, AA610530, AI254781, F00211, AA297930, AA020882, AW086117, H38817, R01095, AA304790, T40550, AA878407, AI914558, AA493701, AA526673, AA295893, AA295899, AI821025, AI359368, AI821314, T10218, AA491722, AW087226, AA664248, AA780648, AI245693, AA551548, T41166, AI031589, AP000359, AC005231, AC005546, AL121754, U07562, AI023553, AC005911, AC005781, X59875, AC005380, AC006130, AL031666, AL009179, AC008115, AC006538, AL049540, AC004834, AC004765, AC004383, AF131939, AC005602, AC004891, AC006251, AL035413, U63721, AL035681, AF015416, AL021391, AL080243, AC007052, AL022726, AC006536, AC005208, AL035410, AC002395, U91323, AL033527, L47234, AL049713, AC004930, AC004825, AC004525, M20902, U36755, M26434, Z85987, AC010072, L29074, AC007066, AC005799, AF064861, U89335, X02883, AL035450, AC004966, AC006121, AL096801, AC006539, AC007934, AJ011930, AC003051, AC019014, AC006137, AL034582, AC007421, AC006141, AL031983, AL031650, AC003080, AC007450, Z69706, AC004778, Z73417, AL096774, AL035398, AC006077, AP000068, AP000008, AL031659, AC004230, AC004804, AL031285, AC007488, AC007226, AC005618, AC005746, U62293, AC004975, AC005057, AC002072, AL008631, AL021367, AC005913, AC002350, AC002365, AB033012, AL031777, AP000126,



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HTAAG63	5728	578537	1 - 447	15 - 461	AA503675, AA381181, AA492325, AL281401, HZ5626, AA516045, AC005193, AL132712, AC002314, AC005280, AD000671, AC007308, AC006077, AC005971, AC005480, AF108083, AC005206, AC005261, AC005667, AC005225, AC002316, AL049570, AL034418, AC004929, AP000688, AB026899, AC002559, AJ011930, AC005785, AL117338, AC004859, AL022313, AC006023, Z84487, U91323, AC003962, and AC002377.
HTAAP36	5729	629270	1 - 286	15 - 300	AA381924, AA381526, AW006162, AI150151, AW003573, AW272490, AA382744, AA676670, AA400188, AA608773, AA148109, AA913954, AA905227, AA400346, AW241479, AI654709, AL214730, AW207216, AA905243, AI554052, AL208940, AW235898, AW274535, AA969339, AL913386, AI635370, AW207054, AW161786, AP000553, and AF060862.
HTAAP96	5730	518454	1 - 223	15 - 237	AA381811, AA381271, and AA381671.
HTAAQ82	5731	952304	1 - 602	15 - 616	AA381587, AA381772, and AA381998.
HTAAU76	5732	508527	1 - 306	15 - 320	AA381744, AA381925, AL045797, and AL045505.
HTAAU78	5733	870884	1 - 117	15 - 131	AA381390, AA381725, AA319995, and AA381962.
HTAAW11	5734	961231	1 - 235	15 - 249	AA381616, AA381615, AA381569, and AA382076.
HTAAW46	5735	719422	1 - 264	15 - 278	AA381409, AA381410, AI133180, AI459866, AC006039, AC004905, AB020863, AC007680, AP000557, AC002395, AC004895, AP001053, AC005924, AC006210, AC005332, D86077, AL023575, AL139054, AL031276, and Z84719.
HTAAW81	5736	535295	1 - 295	15 - 309	AA381642, AA381664, AA381728, AA381608, and AA381961.
HTAAW89	5737	575304	1 - 132	15 - 146	AA381991, AA381750, AA381819, and Z84474.
HTABE51	5738	960936	1 - 275	15 - 289	AA381803, and AA381336.
HTABE93	5739	509675	1 - 288	15 - 302	AA381313, and AA381844.
HTABF52	5740	535399	1 - 302	15 - 316	AA381789, AA381881, and AA381457.
HTABF72	5741	508952	1 - 315	15 - 329	AA381500, and AC004885.
HTABG03	5742	960931	1 - 327	15 - 341	AA381713, AA381652, AA381821, AA381687, AA381686, AA381597, AA381596, AA381847, AA381685, AI559282, AA578626, AA373861, AA229655, H68631, AC005838, AC002544, and AA381685.

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HTABG44	5743	508366	1 - 128		15 - 142	AA381864.
HTABG83	5744	518355	1 - 164		15 - 178	AA381660, AA381544, AA381729, and AC004242.
HTABG87	5745	940153	1 - 530		15 - 544	R01633, AA381661, AA381405, and AR044136.
HTABJ93	5746	508441	1 - 250		15 - 264	AA381933, AA381875, and AA382012.
HTABK73	5747	835945	1 - 339		15 - 353	AA381761.
HTABN17	5748	954400	1 - 334		15 - 348	AA381836, AA381752, AA381908, AA382062, AA381970, AA382016, and AA381780.
HTACL04	5749	925571	1 - 338		15 - 352	
HTACN31	5750	974314	1 - 394		15 - 408	AL080243.
HTACN96	5751	975073	1 - 580		15 - 594	
HTACPI9	5752	537439	1 - 89		15 - 103	AI968466, AB002312, and AB032254.
HTACPS2	5753	968997	1 - 563		15 - 577	AA287087, AA651846, AA601230, AI253519, AA501906, AA256949, AL079769, AI925776, AA479930, AA491864, AA159046, AW402143, AA557604, AA828046, F11809, AI745457, AA501614, N24321, AA363225, AI278972, AA904231, AA526193, AA747632, R70326, AC007934, AF190465, AC004530, AC002565, AC004837, Z93930, AC002404, AC006537, AC006112, AC005280, Z82215, AL109865, AL049795, AC007676, AC004821, AL020993, AC003046, AC003982, AC006241, AC005217, AF037722, AC005288, AC004520, AL031733, AL133163, AC011604, AC007239, AL031666, AC004953, AC006101, AC007262, AC005531, AC002470, AF053356, Z23091, AL139054, AC003044, AL021391, AL050307, AC005304, AC005702, AC005829, AC002073, AC004228, AF165926, AL035089, AC006115, AC004814, AC006160, AC005529, AC004167, Z68282, AC007298, AL031657, Z86090, AC006965, AC007551, AC004686, AC007537, AC006449, AL021154, AL117592, L78810, AC007229, AF196779, AC004000, Z92542, AC005632, AC002123, AL021331, AC000085, Z85999, AC006197, AC004638, AL033527, AC004884, AL023879, Z83844, AC007057, AL049872, Z99716, AB023049, AC005971, AC005730, AC002347, AL034411, AL035086, AL080243, AP000512, AL033397, AC006033, AC005527, AP000961, AP000704, AL035450, AL078477, AC004883, AC002312, AC005844, AC004019, AL049694, AC007151, Z93244, AC005138, AP000555, AC005486, AL035652, AC005355, AC000092, and AC005746.
HTACR92	5754	918250	1 - 295		15 - 309	
HTACS45	5755	537433	1 - 109		15 - 123	AC000159.
HTACS46	5756	537435	1 - 284		15 - 298	
HTACT29	5757	537377	1 - 301		15 - 315	
HTACU21	5758	504612	1 - 130		15 - 144	AA381989, and AJ225782.
HTACU80	5759	777608	1 - 194		15 - 208	AA308896, AA299220, Z83840, AF134726, AL078644, and AC006026.

HTACW17	5760	961560	1 - 313	15 - 327	
HTACY32	5761	531492	1 - 431	15 - 445	AI479338, AW193956, AW204083, AI942363, AA286986, AW135497, AI066644, AI436295, AA018555, AI333268, AW182032, AA278842, AI807168, H43862, AA761285, AW293924, AW293036, and AW250094.
HTACY49	5762	557836	1 - 350	15 - 364	
HTADA22	5763	507146	1 - 367	15 - 381	AC006486, and X97703.
HTADC11	5764	967577	1 - 335	15 - 349	H04057, R81380, and AI087942.
HTADH05	5765	932470	1 - 116	15 - 130	
HTADH61	5766	955245	1 - 210	15 - 224	
HTADI11	5767	964944	1 - 226	15 - 240	
HTADI93	5768	870820	1 - 259	15 - 273	
HTADI25	5769	537427	1 - 295	15 - 309	Z94160.
HTADI36	5770	773764	1 - 447	15 - 461	AW411107, and R82922.
HTADK40	5771	537423	1 - 447	15 - 461	
HTADM61	5772	550342	1 - 460	15 - 474	AA306284, AA348482, U51715, AI910293, AA337287, AA319313, AA486319, AL039891, AI936644, AI634534, AI693668, and D87442.
HTADQ83	5773	734996	1 - 228	15 - 242	
HTADQ93	5774	537418	1 - 110	15 - 124	
HTADR41	5775	934435	1 - 347	15 - 361	Z97989.
HTADW69	5776	537428	1 - 293	15 - 307	
HTAED78	5777	761591	1 - 413	15 - 427	AL133243.
HTAEF32	5778	927101	1 - 579	15 - 593	
HTAEH74	5779	974303	1 - 365	15 - 379	
HTAEJ77	5780	930978	1 - 414	15 - 428	AA381361.
HTAEK78	5781	773763	1 - 518	15 - 532	
HTAEL90	5782	958220	1 - 134	15 - 148	AL109758.
HTAEO84	5783	537374	1 - 91	15 - 105	
HTAER18	5784	537421	1 - 272	15 - 286	
HTAES82	5785	537373	1 - 342	15 - 356	AC005669.
HTAET86	5786	969532	1 - 284	15 - 298	
HTAEU76	5787	767963	1 - 556	15 - 570	AA533823, AA887181, R44042, AI064955, H05828, AA613954, AA654852, AI311234, AA424170, AL034399, AC004875, AC005924, AL031427, AC006343, AF111168, AC006241, AC009399, AC007277, AC005095, AL049780, AC005701, AC005552, AC005903, AL050332, AC006057, AL024508, AL031681, AC006530, AL109623, AC007207, AL050334, AL121655, AC008045, AC007014, AC007193, Z93022, AL031291, AL034548, Z99716, AP000281, AP000039, AP000107, Z98884, AL109628, AC005347, AC005364, AF109718, AC005156,

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HTAEV65	5788	838803	1 - 588	15 - 602	AL118881, and AA569067.
HTAEW87	5789	971526	1 - 323	15 - 337	AA381722, AA381242, and AA381829.
HTAEW95	5790	780986	1 - 449	15 - 463	
HTAEX66	5791	881092	1 - 474	15 - 488	AA381840, AA381799, and AA381872.
HTAFA06	5792	934570	1 - 417	15 - 431	AC004551.
HTAFA66	5793	868433	1 - 622	15 - 636	
HTAFC37	5794	973085	1 - 1047	15 - 1061	AI867175, AI654803, AI825698, AI633921, AI692176, AI632546, AI339492, AI003917, AA669506, AA968579, AA889250, and AI634422.
HTAFC76	5795	767976	1 - 470	15 - 484	AC005480.
HTAFD63	5796	744409	1 - 54	15 - 68	
HTAFE69	5797	944409	1 - 701	15 - 715	AI962030, AL038842, AA765925, AA832444, AA664043, AL079734, AA502991, AA084609, AA581247, AA452887, AI590906, AI066646, AA493226, AI335995, AI263264, AI755202, AA736695, AI568088, AI357823, AI955029, AI749527, AW328000, AC006312, AL121595, AL031848, Z98200, AC007263, AP000501, AF111168, AC006512, AL035587, AC002375, AC005952, AC004150, U91322, AL049712, AL133353, Z98051, AC004975, AC009784, AC002115, AC005004, Z93930, AL133244, AL080243, AC004821, AC006121, AC005412, AF134726, AF031078, Z93023, AC005527, AC004895, AC005255, AC008115, AC006468, AP000552, Z94721, AF030876, AC004891, AL049776, AC005702, AP000511, Z95331, AC005102, AL096794, Z85987, AC004967, AC004745, AC005920, AC005736, AC004554, AC006380, AP000502, AC007011, AP000030, AC005971, AC004851, AL008583, AL021707, AC005197, AC006480, AC005409, AC004813, M89651, AP000212, AP000134, AC004913, AC005529, AL031680, Z97353, AC007225, AB023051, AL096791, U91326, AL021391, AC004859, AL109847, AC005513, U95742, AC005914, AC005089, Z98036, AP000362, AC007686, AL031767, AL031311, AL035461, AL008715, AF196970, AC005071, AC005784, AC006043, AL049839, U85195, AP000031, AC000134, AC006277, AC005082, AL031662, AC005288, Z98884, AL049829, AC002350, Z75889, AL021878, AC005081, AE000658, AC007376, AC004797, AC005829, AC005028, AC006966, AC002301, AP000692, Z83826, AC006211, AC005924, AP000557, AC007731, Z94160, AC005500, AC002116, AC007193, AC006952, AP000512, AB017602, AL035071, Z85996, AL033525, Z83840, AC006511.

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HTAFES0	5798	787604	1 - 369	15 - 383	R20183, AA485189, F06553, and AB030181.
HTAFFI1	5799	933028	1 - 325	15 - 339	AA381467, Z99297, and Z55213.
HTAFF76	5800	767968	1 - 379	15 - 393	
HTAFG52	5801	974338	1 - 709	15 - 723	
HTAFG58	5802	870854	1 - 531	15 - 545	AW007759, H73550, AA584489, AA720702, AA644090, AI064864, AA847508, AW151541, AI017251, AA847427, AI446464, AL037910, AA702539, AA702080, AA608520, AA664604, AI061313, H93293, AW302709, AA555229, AA338234, AI040051, AA533281, AA629540, AI205181, AI537955, T05834, AI031759, AL038842, AL079869, F23327, AI473995, H63660, AI491867, AI004591, AG634786, W79504, AA523843, AA579427, AI095197, AA573131, AW238127, AA720582, AL045077, AW169038, AW438616, AI689385, AA425924, AL031228, AC005274, AL035458, AL035450, AC005358, AC021092, AC004242, AC005666, AF111168, AP001053, AL031005, AC005940, AL031668, AL135745, AC009247, AL034420, AC004895, AF053356, AD000092, AC005755, AL049697, AC004963, AC005971, AC008123, Z98051, AC003681, AP000115, AC007406, AL109984, AC004686, AL133448, AL031295, AC005921, AJ003147, AL049636, AF001550, AC005300, AF045555, AC005670, AL008732, AC003982, AL096701, AL078463, AC007308, AC004887, AC003083, AL049795, AF134726, AP000557, AC005703, AC005200, AC004472, AC005288, AC006213, AC005393, AL078611, AF217403, AL021808, AC004263, AC005969, AP000338, AC006960, Z82215, AC005083, AC008249, U95742, AF107885, AP000216, AC006050, AC006057, AC007102, Z93241, AF047825, AC007685, AL031311, AC007114, AL035423, AC002312, AC007182, Z84479, AC005828, AC005519, Z83840, AL022315, AC002126, AC002429, AC005209, AC005740, AC005244, AL078581, AC005774, AP000252, AC007226, AL078476, AL050338, AL022322, AC005086, AL009031, AC003682, AC006241, AC016830, U91327, AC002425, AC006273, Z93017, AL096791, AL110502, AC002565, AL049757, AC000379, AC005180, U95743, AC004765, AC005324, AC006515, AC007216, AL031053, AL022476, AF029308, AC006001, AL031429, U89337, AC005154, AC005859, AC007676, AC000090, AC007666, AL049843, AF039907, AC006023, AB001523, AC006430, AP000354, AC000041, AC005484, AC0066039, AP000962, AL080241, AL049712, AL049776, AC007193, AL031584, AP000512, U85195, AC005220, AC004024, AC005535, AC005527, AC002326, AC007227, AL121603, AC004837, AC005015, AC008044, U15422, AC003692, AC006071, Z84469, AC003086, AC005412, AC005195, AC007214, AE000658, AL031432, AC004388, AC004883, Z84488, AC005482, AP000031, AC002470, AC005695, AC006195, AC000025, AC000052, Z69705, AP000152, AC006449,

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HTAGA71	5803	870853	1 - 292	15 - 306	
HTAGB89	5804	974060	1 - 392	15 - 406	
HTAGC91	5805	963125	1 - 386	15 - 400	
HTAGI29	5806	925699	1 - 418	15 - 432	AL041135, AB023229, and AJ236582.
HTAGI53	5807	936117	1 - 193	15 - 207	
HTAGL61	5808	963182	1 - 524	15 - 538	
HTAGN04	5809	926501	1 - 620	15 - 634	AW299622, AA931204, H92418, and AC004849.
HTAGV46	5810	847777	1 - 564	15 - 578	R02305.
HTAGV49	5811	836078	1 - 507	15 - 521	AW070228, and AA669099.
HTAGZ11	5812	965867	1 - 459	15 - 473	AC006101, AF003626, AC004966, Z93930, AL035684, AL133163, AB013139, AC004815, AF047825, AC004612, AC004832, AL049776, AF069291, AC002551, Z86090, and AF049895.
HTAHB17	5813	860919	1 - 324	15 - 338	
HTAHJ49	5814	934013	1 - 490	15 - 504	AA381758.
HTAHK12	5815	920332	1 - 544	15 - 558	
HTAHL28	5816	974030	1 - 399	15 - 413	
HTAHL45	5817	908949	1 - 649	15 - 663	R35096, R17249, D58283, D59502, D80195, D59275, C14389, C14331, D51423, D80038, D81026, D59467, D80164, D80227, D59859, D80022, D80253, D80166, D59619, D80210, D51799, D80391, D80240, D80043, C15076, D59787, D81030, AA305578, D80269, D51022, D80522, D50979, D80212, D80193, D80196, D80188, D59610, D80045, D80219, D59889, AA514188, D59927, D57483, C14014, D80378, D80366, AA305409, D80024, D50995, D80248, C14429, AW177440, AA514186, AW360811, D80241, D80251, D80133, D51060, AW178893, D80302, AW375405, D80268, T03269, AW377671, AW179328, AW366296, AW360844, AW360817, C75259, AW375406, D80439, AW378534, AW179332, AW377672, AW179023, AW178905, D80247, AW178906, AW177501, AW177511, AW378532, C05695, AW352171, AW352170, AW377676, D51103, D80132, AW177731, AW178907, AW178762, AW179019, AW179024, D58253, D59373, D80134, D51250, AW177505, AW360841, AW179020, AW178775, AW178909, AW177456, AW179329, AW369651, AW178980, AW177733

HTAHL76	5818	974300	1 - 470	15 - 484	<p>AW378528, AW178908, AW178754, AW179018, AW352158, AW352117, D80157, AW367967, AW176467, A84916, AB028859, AJ132110, A62300, A62298, AR018138, AR008278, AF058696, A82595, X67155, Y17188, D26022, Y12724, A25909, A67220, D89785, A78862, D34614, A94995, AR060385, AB002449, D88547, AR008443, I82448, X82626, I50126, AR016808, I50132, I50128, I50133, AR066488, AR016514, AR025207, AR060138, A45456, A26615, AR052274, Y09669, A43192, A43190, AR038669, AR066490, AR066487, I14842, A30438, I18367, AR054175, D50010, Y17187, A63261, AB012117, AR008277, AR008281, AR008408, X64588, AR062872, A70867, X68127, AR016691, AR016690, I79511, U46128, A85396, D13509, D88507, AR066482, A44171, A64136, A68321, AR060133, A85477, I19525, A86792, X93549, AR060382, U79457, AF123263, AR032065, and AR008382.</p> <p>AW002350, AA428792, AW303008, AA602047, AW021627, AA730422, AI630283, AA297734, AW021583, AI349849, AA476397, AI590485, AI217936, T92271, AA236903, AI868384, C18521, AI932599, C18840, AI937125, AA092571, AA890425, AA526316, AA487621, AA715090, AI554758, AA488746, AI037052, H84675, AI564454, AI368256, AI635819, AA683238, AA831700, AI123396, AI370104, AA584733, AA483108, AA297769, AI045808, AI046156, AI819140, AA854993, AI525319, AW276835, AI036251, AA487417, AW068596, AI224093, AA719292, AI038473, AI754271, AA588001, AI755164, N64259, AW276748, AA564570, AA812141, AI088768, AI047429, N35602, AW177003, AA629872, AW149313, AI924872, AI890324, AI434686, AI037554, AA570230, AA486559, AA286669, AI046266, AA018283, AI766906, AI633479, AA431949, AI051457, AI828710, AW022608, AA370455, AI434186, AI249473, AW302950, AI138182, AW084445, AC005375, AC006930, AC005225, AC004234, AI049829, AC004087, AI022237, AC004675, AB002390, AC006537, AI030995, AC004150, AF111168, AF088219, Z97352, Z85987, Z83843, AC005730, AC007637, AP000700, U44395, AC004808, AI133245, AC002365, I44140, Z82206, AI023877, AC006019, AC004916, AC004527, U95740, AC000379, AI031602, AC000117, AI117258, U67221, AC002120, Z54072, AC004149, Z93023, AI078477, AI008633, AI031295, Z97987, Z84488, AC005598, AJ223364, AC004778, AI023882, U51561, AC005568, AC004257, U07562, AF017732, AC007360, AC006004, AI034451, AI049539, AP000345, AC004933, AI132712, AC004386, AI080243, U95743, AC005703, AI078638, AI021368, AI031259, AC005295, AI133249, AC005284, AC005291, AC005046, AP000253, AC007191, AC003086, AC006354, AC007685, AC006459, AF107885, AC002538, AR042836, AC006996, AC004755, U07563, AC011718, AP000126, AP000204, AC002124, AC012330, Z83841, AC008044, Z84466, AC004253, AP000244, AC007934, AC012099, AI133500, U50429, AC000076, AF038458, AC005911, AF155238, AI008631, AC004098, AC006518, AC007564, U47924, AF009660, AC004855, AC005183, AC006599, AI023578, AF015416, AI109827, AI031659, AC003962, AI035587, AC002477, AI033521, AI050325, AC004953, AI034548, AI034549, AC006987, Z98950, AC008249, U91322, AI049837, Z00017, AI078621, AI035069, Z54334, Z68289, AC004034, AI031393,</p>
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HTAHN29	5819	923115	1 - 752	15 - 766	AC004752, AL035468, AL035249, AC005281, AP000365, AL049570, AP000548, AC002504, AC004381, AC005332, AF048729, AP001066, AP000228, AL035397, Z98885, AC004672, AC005353, AP000140, AC002115, AC007245, AC005104, AC004967, AC006360, AC004812, AL121653, AP001067, AC006285, AC002307, AL096701, AC006120, AC003035, AL117693, AC004025, AF015149, U00482, AL049631, AC005031, AC004448, U63630, AC005952, AC000359, Z81364, AC004830, AL033523, AP000152, AP000011, AL080316, AL049761, AC006409, AC002401, AL031276, AL096710, Z84480, AC008127, AC007425, AF139813, AL035671, AL109753, AL035455, U91326, AC020663, AC006557, AC009275, AL035467, AC002289, AL137100, AL049871, AC005245, AC008154, AC003010, AC005084, L29074, AC009405, AC006210, AC005538, AC004228, AC005529, AC002312, and AC005393.
HTAHQ22	5820	870831	1 - 275	15 - 289	
HTAHQ94	5821	839505	1 - 506	15 - 520	
HTAHR03	5822	922772	1 - 417	15 - 431	
HTAHR06	5823	934062	1 - 451	15 - 465	
HTAHS10	5824	963183	1 - 415	15 - 429	
HTAHS21	5825	960795	1 - 503	15 - 517	AA381575, and AC002528.
HTAHV04	5826	926747	1 - 435	15 - 449	AI572619, AI814836, AI686747, AW167851, AL202106, H86259, H85857, AA059020, AI096537, and AC005757.
HTAIB11	5827	965835	1 - 246	15 - 260	
HTAIC05	5828	930951	1 - 806	15 - 820	
HTAID04	5829	926541	1 - 389	15 - 403	W87576, AA694098, W87434, AI056858, AA676994, AA677352, R16832, AC006312, AF165926, and AJ006997.
HTAIF70	5830	974062	1 - 476	15 - 490	AA381501.
HTAIF78	5831	870785	1 - 727	15 - 741	AA251602, and AA381714.
HTAIK75	5832	870815	1 - 458	15 - 472	
HTAIQ39	5833	921729	1 - 418	15 - 432	
HTAIQ75	5834	870804	1 - 401	15 - 415	AC002400.
HTAIR54	5835	870814	1 - 712	15 - 726	H67194, and H67182.
HTAIU80	5836	968234	1 - 448	15 - 462	AC006372.
HTAIV79	5837	870874	1 - 505	15 - 519	
HTAJG31	5838	926731	1 - 439	15 - 453	
HTAJG65	5839	975260	1 - 452	15 - 466	
HTAJI01	5840	914899	1 - 244	15 - 258	
HTAJN08	5841	958057	1 - 146	15 - 160	R46278, R74243, and AA203640.
HTAJR80	5842	975309	1 - 484	15 - 498	D51221, D59467, AA305578, AA809122, T11417, D59317, D50979, D60010, D59551, D80164,



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HTBAA95	5843	715044	1 - 466	15 - 480	AA382185, AF137030, and AF137031.
HTDAA07	5844	870742	1 - 395	15 - 409	
HTDAC37	5845	575842	1 - 438	15 - 452	D29028.
HTDAC77	5846	772242	1 - 486	15 - 500	
HTDAE25	5847	714359	1 - 794	15 - 808	N95037, A1022474, A1248271, AA975181, A1149108, A1093311, A1209125, AW090147, A1563932, AA464704, AA888260, A1817984, N66677, A1372916, AA194950, A1613488, AA988360, AW009662, AW197169, N70667, A1139484, AA593023, A1291223, AA918512, A1290011, AW275959, A1207031, A1147360, A1223112, AW168560, AA838742, A1700254, AA677736, AA025125, A1127821, A1199468, A1678965, AA706984, A1142366, AA648206, A1290254, AA705483, AA195162, T48016, AA662480, W94302, W79125, AA535223, AA649121, Z19423, A1887125, C00301, AA423808, A1624775, AA721770, H96745, AW021909, AA653395, AA808520, A1264085, R06999, AA419007, A1636591, H30126, AA203331, AA203130, A1371762, F37305, AA025205, Z25040, AL050096, and AF083255.
HTDAE43	5848	889311	1 - 466	15 - 480	AA478790, AA454942, AA291948, AW237540, N91112, A1494473, A1911509, A1439197, AA343020, T82251, T80658, A1652561, A1952736, AA478908, AC005613, AL049875, AC005318, AL132800, AL031000, AC005406, AC007966, AC004024, A1022727, AC007283, AB026899, AP000500, U65960, AC006313, Z83827, AC004817, AC006017, AL022401, AC004072, AL133321, AC008040, AC007068, D84394, AL121576, AP000509, AC006048, AC005296, AC002464, AL096801, AC003685, AJ003147, Z73965, AC006023, AC005598, AL023581, AC006371, AP000350, AC006001, M19364, AB002059, A22491, AC002472, AC007664, AC004869, AC006040, AF114156, K02402, AP000476, AL0333403, AC004205,

HTDAF65	5849	927842	1 - 805	15 - 819	AC004210, AC008173, and AC007690.
HTDAG18	5850	975317	1 - 531	15 - 545	AA809786.
HTDAI42	5851	576013	1 - 168	15 - 182	AW450512.
HTGAL23	5852	574100	1 - 581	15 - 595	AJ243213.
HTGAM06	5853	935798	1 - 313	15 - 327	AA081775, and AL034553.
HTGAM26	5854	682040	1 - 268	15 - 282	AC004242.
HTGAM42	5855	578797	1 - 286	15 - 300	
HTGAN20	5856	578804	1 - 377	15 - 391	
HTGAO17	5857	876650	1 - 556	15 - 570	AA306797, AA315885, AA278590, and Z56144.
HTGAR40	5858	664270	1 - 285	15 - 299	AL109758.
HTGAR72	5859	574681	1 - 287	15 - 301	
HTGAS32	5860	835534	1 - 446	15 - 460	AA669142, and Z82206.
HTGAT93	5861	791508	1 - 304	15 - 318	
HTGAV59	5862	870798	1 - 616	15 - 630	R86892, AA628423, R41612, AI707842, AI055957, H05210, AA991859, AA470669, AA001858, AA031622, AI609279, AA974128, AI434212, AI244762, AI093589, AW169863, AA975419, AI800762, AA659915, N62291, AA044282, AI342963, AA026158, AA994340, AI375034, AA099832, AA149174, AI608984, R64147, R64156, AI136703, R65842, H86821, H87284, AI302922, AA031703, AI631329, AI824240, H83826, AI801241, W57570, AA149173, AA026157, AI744430, AA777668, and AC004549.
HTGAW37	5863	752829	1 - 402	15 - 416	
HTGAW75	5864	572404	1 - 410	15 - 424	
HTGAX19	5865	782877	1 - 587	15 - 601	H93152, H75866, AI057455, AA483942, AI432270, AI031687, AI049729, and AC006141.
HTGAY36	5866	923716	1 - 306	15 - 320	
HTGAY79	5867	775299	1 - 359	15 - 373	
HTGAZ62	5868	870414	1 - 332	15 - 346	
HTGAZ79	5869	584717	1 - 459	15 - 473	H52047, and AA354013.
HTGBE53	5870	685648	1 - 320	15 - 334	
HTGBE76	5871	954599	1 - 633	15 - 647	AI476793, AI672290, AW138734, AA779654, AA879458, AI681663, AI697960, AI914080, AI809954, AA830773, AI689893, AA829778, AA427944, AA430133, AI292003, AW006004, AI802022, AI830817, AA760755, AA911826, AI972329, AW024985, AI218258, AI262623, AI147166, AA775696, AI307175, AA432096, AI318373, AW135791, AI291999, AI262625, AI468220, AI261474, AI680656, AW303999, AI697519, AI932284, AI932319, AI301269, AW015392, AI351005, AI459293, AA057484, AI478943, AI264521, AI146596, AW131688, R94942, AI084799, AA434562, AI798178, AW207495, AI796893, AI144302, AI418524, AI690206, AI810352, AW136151, AI927475, W23511, AA912757, AA807192, AA906625,

HTGBF16	5872	572499	1 - 435	15 - 449	AW242625, AL272736, AA862266, and AL079720.
HTGBF62	5873	753962	1 - 286	15 - 300	T85954, T86652, and T85542.
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HTGBF90	5874	786611	1 - 359	15 - 373	AA806299, AA829999, AA831691, AA321371, and AL096808.
HTGBG55	5875	966903	1 - 373	15 - 387	AA923782.
HTGBH18	5876	579103	1 - 344	15 - 358	
HTGBH55	5877	735751	1 - 583	15 - 597	I28792.
HTGBI93	5878	787110	1 - 207	15 - 221	AC003663, AC003070, AL022726, AC005104, and AC006251.
HTGBJ55	5879	579005	1 - 398	15 - 412	AJ132917, AF158180, AF031075, AF031078, and AF030876.
HTGBK66	5880	772325	1 - 327	15 - 341	
HTGBL34	5881	572643	1 - 308	15 - 322	AA361858.

HTGBL72	5882	576641	1 - 357	15 - 371	
HTGBN09	5883	506500	1 - 335	15 - 349	
HTGBN27	5884	683557	1 - 208	15 - 222	
HTGBN57	5885	578806	1 - 257	15 - 271	
HTGBP65	5886	870406	1 - 227	15 - 241	Z84479.
HTGBR20	5887	669797	1 - 609	15 - 623	AW408268.
HTGBR93	5888	973978	1 - 635	15 - 649	D80166, D80212, D59619, D80210, D80240, D59502, D80219, D81030, D51423, D51799, C14389, D80253, D80195, D58283, D59859, D80022, D80188, AA305409, D80391, D80043, D80227, D57483, D80193, D80196, C15076, D80045, D59889, C14331, D59927, D59610, D80164, D80269, D59787, D59467, D59275, D80038, D80366, D80241, D50979, C14429, D50995, T03269, D80024, D80378, D80134, D51060, C14014, D80248, C75259, AW178893, D80949, D80251, D51022, D81026, AW179328, AA305578, AW378532, AW177440, D51250, AA514186, AA514188, D80133, AW178775, F13647, AW369651, D80439, D80064, D80168, D58253, C14298, D81111, D51079, D80522, AW360811, D80268, AW352158, C14227, D59695, AW178762, C05695, AW375405, D80157, Z21582, D80132, AW177501, D51759, AJ910186, AW177511, AW377671, AW366296, AW360844, D59373, AW360817, AW375406, AW378534, D80247, C14407, AW179332, AW377672, AW179023, AW178905, AW177731, AI905856, AW360834, AW352117, D80302, AW176467, AW179020, AW378540, AW377676, AW352171, AW178906, AW352170, AW178907, AW178908, AW179019, AW179024, D51103, AW17505, AW177722, AW360841, AW178909, AW177456, AW179004, AW179329, D59653, AW178980, AW177733, AW378528, AW178754, AW179018, D51097, D58246, AW179009, AW179012, AW178914, AW178911, T11417, AW378525, AW352174, AW367967, T48593, AI557751, C06015, AW178983, AW177728, AW178774, AW378543, AW352163, D45260, D59503, AW178781, AW177723, C14077, C03092, D58101, H67854, D80228, AW352120, AW178986, AI557774, AW367950, AI535850, H67866, AA809122, D59627, AI525917, AI525923, D51213, D80258, D51221, AW177734, T03116, D59317, C14344, AW378533, D80014, D59474, C14973, AI525920, AA514184, C14957, D60010, C14046, AI535686, D59551, AI525235, AI525912, D60214, AI525215, AI525227, AW177508, T03048, AW177497, D50981, AI525242, AA285331, AW378542, AI525925, AI525222, D51053, C05763, AW378539, D45273, C16955, Z33452, T02974, C13958, Z30160, AW360855, AI525237, H67858, C04682, A62298, A84916, A62300, AJ132110, AR018138, A67220, X67155, Y17188, D89785, A78862, AR008278, D26022, A25909, AF058696, D34614, AB028859, D88547, Y12724, I82448, X82626, AR025207, A82595, AR060385, AB002449, A94995, I50126, I50132, I50128, I50133, AB012117, AR008443, AR060138, X68127, AR066488, AR016514, A45456, A26615, AR052274, A43192, A43190, A85396, AR066482, AR038669, A44171, I14842, Y09669, A85477, I19525, A86792, AR066487, A30438, X93549, AR054175, D50010, Y17187, AR066490, A63261, AR008277, AR008281, I18367, AR008408, AR062872, A70867, AR016691, AR016690, U46128, A64136, A68321,

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HTGBS02	5889	920445	1 - 355		15 - 369		
HTGBY51	5890	506502	1 - 263		15 - 277		
HTGCD10	5891	964884	1 - 275		15 - 289		
HTGCD85	5892	579028	1 - 313		15 - 327		AI469599, AC005682, AL049760, AC005484, AP000475, AL121652, AC005777, AC006530, AC004520, AP000269, AF029308, AP000103, Z83840, AL050317, AC005015, AL109758, AC006052, AP000049, AC005996, AP000311, AC005318, AC007308, AC005901, and AL121595.
HTGCF49	5893	723090	1 - 545		15 - 559		AI017212, AL042735, AB018295, and AF155097.
HTGCG89	5894	894005	1 - 413		15 - 427		
HTGCH58	5895	909849	1 - 1259		15 - 1273		AA746372, AW293387, AA804512, AI124624, N29013, AW082724, AA737473, AI018013, AW298470, AI304868, AI348442, AA776579, AW298354, AA748461, N20641, AI280305, AA923469, R50142, AA837153, AA921954, AA827804, and Z60950.
HTGCI80	5896	588166	1 - 474		15 - 488		H53442, and AA249120.
HTGCJ54	5897	571389	1 - 502		15 - 516		
HTGCL06	5898	935789	1 - 367		15 - 381		AL040359.
HTGCL40	5899	578774	1 - 225		15 - 239		
HTGCL94	5900	747573	1 - 242		15 - 256		
HTGCM13	5901	913673	1 - 326		15 - 340		
HTGCM90	5902	678122	1 - 472		15 - 486		Z85986.
HTGCM92	5903	578768	1 - 296		15 - 310		AA381762, AC007193, AL022318, AL022316, AC005412, Z98884, AC006487, AC005914, AL009181, AC005212, AP000557, Z93241, AF064861, AP000116, AC005746, AC007055, AL022323, AC006121, AC005018, AC007308, AC002400, Z83838, AC005736, AC008040, AC004148, AC002470, AC007536, Z99496, AC007226, AC005370, AL050307, Z83826, AL050341, AC005328, AL008583, AC007785, AL031123, AC005754, AC000353, AC002369, Z98044, Z97630, AC002128, AC007263, AP000555, AL031311, AC004673, AL049709, U95742, U78027, Z96074, AC009516, AC003007, AC005011, AL020997, and AC007216.
HTGCP76	5904	770143	1 - 299		15 - 313		AA350028, AI561255, AA654998, AI707788, AL042420, AA364224, AW440810, AA747480, AA747276, T07778, AL080274, AL031666, AL096701, AC008064, AL049874, Z84474, AF055066, AC005765, AC005237, AC007955, AL080243, AL049832, Z75894, Z75895, AP000056, AP000171, AP000124, AC005004, AP000330, AC005412, AL022322, AC007130, AL031289, AL009179, AC005940, AC007418, AC005258, U38670, U38668, AL031255, AC006071, AC012599, AC004966, AL133485, AC000353, AC004386, and AC004821.
HTGCQ15	5905	880293	1 - 377		15 - 391		
HTGCQ19	5906	974433	1 - 491		15 - 505		

HTGCS20	5907	933260	1 - 520	15 - 534	
HTGCS81	5908	921650	1 - 232	15 - 246	AT754576, AW195474, AA846702, and AC004889.
HTGCT54	5909	960912	1 - 291	15 - 305	AA459192, R08444, T85564, T84409, and AA361578.
HTGCT57	5910	496297	1 - 380	15 - 394	AL049563.
HTGCU25	5911	679403	1 - 267	15 - 281	
HTGCU28	5912	713353	1 - 242	15 - 256	
HTGDC28	5913	735002	1 - 397	15 - 411	
HTGDC63	5914	579127	1 - 392	15 - 406	
HTGDC70	5915	757191	1 - 395	15 - 409	
HTGDC75	5916	769010	1 - 135	15 - 149	AL049758.
HTGDM56	5917	733405	1 - 404	15 - 418	AL020997.
HTGDM65	5918	967158	1 - 426	15 - 440	
HTGDS63	5919	958651	1 - 363	15 - 377	
HTGDS88	5920	659766	1 - 550	15 - 564	
HTGDT91	5921	974962	1 - 626	15 - 640	AW375405, AA305409, AW177440, D80439, AW360811, AW366296, AW375406, AW179328, T03269, C14389, T48593, AW378534, AW179004, AW179332, D58283, AW179329, AW377672, AW179023, AW178905, D59859, D80022, C14331, D80166, AW177731, D80195, D80193, D59927, D59467, D51423, D59619, D80247, AW378528, D80210, AW178906, D51799, D80391, D80164, D59275, AW178762, D80240, D80253, D80043, D59787, D80227, D59502, AW378532, D80038, AW179019, AA305578, AW377676, AW352170, D45260, C06015, AW378533, A1525913, I50126, I50132, I50128, I50133, AR066488, X82626, AR025207, A84916, A45456, A67220, D89785, A62300, A62298, Y17188, AB028859, A82595, A78862, D34614, A94995, D26022, D88547, AJ132110, AR018138, AR008278, X67155, Y12724, AF058696, A25909, AR016514, D50010, AR060138, A26615, AR052274, AR008443, Y09669, AR060385, AB002449, AR066487, A43192, A43190, AR038669, A30438, D13509, AR060133, Y17187, AR008408, A63261, A70867, AR016691, AR016690, and U46128.
HTGDU57	5922	712249	1 - 568	15 - 582	AC004242.
HTGDV50	5923	708605	1 - 521	15 - 535	
HTGDW16	5924	661477	1 - 521	15 - 535	T90228, N59530, AL049869, AF031076, AF031078, AF030876, AP000347, AC002067, Z49154, AC006128, AF107885, Z85986, AL049793, and AP000346.
HTGDW40	5925	710759	1 - 580	15 - 594	
HTGDW96	5926	967030	1 - 1682	15 - 1696	AL354538, AI185915, AA902656, AA928143, AI697438, AI091263, AI122948, AW182996, AA205969, AI432383, AW130757, AI686707, AI246246, AA610132, AI095234, AA602547, AI340088, AA992399, AI284151, AA946670, AA775430, H15150, AI081207, AI093901, AA935934, AA827098, AA706205, AI347104, AI369270, N70255, AW024457, AI140633, AI085317, AA909079, AI275007, AI025475, AA905290, AI379266, AA010063, AA872686,

AA948272, AI140722, AI266084, AI352580, AW081421, W04189, N69287, AI436354, AA501433, AA494361, N49879, AA827088, AA724446, AA832464, H56506, AI358609, R43705, H15210, H84120, H84119, AA694028, AA375219, R15221, AI907126, AI003836, AA369964, AA516079, W28121, R20249, R41658, AA206267, H09794, N34884, AI805667, AI934031, AA721176, AI094546, Z40832, AA353931, AI919536, AI382838, AI934162, AA035556, N49984, AA035045, AI572357, AI907128, AI907125, AW393494, AI340087, AW393499, AW301505, AW268302, AI349772, N94107, AI345587, AI345551, AI270183, AW079572, AI036403, AW268122, AI923989, AI698391, AI251963, AI336582, AI815855, AI684021, F37471, AI251221, AI564259, AI040243, AW072719, F27788, AI042745, AI345557, AI079963, AI318280, AW149925, AW268221, AI801325, AI612913, AI866090, AI042628, AI252023, AI521594, AI269862, AI635492, AI358701, AW051258, AI364788, AI537677, AW161579, AI582932, AI812015, AW118518, AW150578, AI045266, AI120853, AI036631, AW198075, AI570807, AI036361, AI041772, AI802542, AW160916, AI889189, AA449768, AI539028, AI039086, AI798456, AI037582, AI037602, AI121501, AW192687, AI525653, AI950892, AI564719, AI591420, AI932794, AW162194, AI036638, AI611738, AI619502, AI677796, AI045500, AI184903, AI491852, AI040241, AW026882, AW151136, AI923370, AI567940, AI929108, AI686906, AA291456, AW051088, AI433157, AI288305, AI702073, AI824576, AI452560, AI889376, AI475371, AW080746, AI524671, AI921248, AW080402, AI632408, AI478123, AI433976, AI633125, AI635067, AI567769, AI620284, AI915291, AI913452, AI950664, N80094, AI554821, AI045774, AI042627, AI539771, AI468872, AI521012, AI500659, AI815232, AI648663, AI500523, AI119863, AI624548, AI520809, AW117746, AI284517, AI036901, AI500706, AI494201, AI491776, AI445237, AW151138, AI110306, AI926790, AW087445, AI538342, AI521560, AI500662, AI284509, AI889168, AI866573, AI633493, AI434256, AI121328, AI120300, R36271, AI888661, AW129659, AI284513, AI888118, AI038605, AI445992, AW020693, AI554245, AI440252, AA225339, AI306613, AI433037, AI174394, AI627988, AI909697, AI281772, AA640779, I48979, I48978, AF113694, I89947, AI050277, AF113019, AF090934, Y11587, AF090901, AI117457, AF177401, A08910, A08909, A08913, AI050393, AF111851, AI133560, U35846, AF113690, AF090903, A08916, S78214, AF067728, AI122050, AF183393, AI133072, AI049283, AF087943, AF153205, Z82022, AF090900, AI050149, AI096744, AF146568, AF078844, I89931, AI133016, AF057300, AF057299, Y16645, AI137550, I49625, AI122049, AF097996, U67958, I33392, AF113699, L31396, S68736, L31397, X84990, AI110280, A65341, A77033, A77035, AF111849, AF017152, AI117435, AI122121, AF106862, X72889, AF113677, AI137557, A03736, AI049314, E07108, AI133075, AF125949, U42766, AI133104, X70685, AI110196, AI133080, AI133640, AI137271, AI137538, AI122098, AI122110, AF017437, A93350, AI050116, AF158248, AI050138, AF118070, Y11254, AJ242859, AI133557, AF026816, AI137521, A58524, X82434, AJ000937, AR000496, U39656, AF090896, AI2297, AI110222, AF090943, AI137560, AF113691,					
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HTGD529	5927	883517	1 - 450	15 - 464	AT9793116, AT9793143, AA976208, AT703191, AT733188, AT733210, AA210747, AA367325, AA478680, AF048686, and AJ006068.
HTGEB95	5928	725254	1 - 383	15 - 397	
HTGED32	5929	698776	1 - 760	15 - 774	H62923, AL434696, AA550959, AA502110, AA984920, AA564925, AL022476, AF111168, X90927, X90926, M33388, X58467, X58468, AC008273, AP000556, AP000557, AP000553, AC007899, AC002040, AL049839, AC005089, AC002369, AC004659, AC007666, AC009501, AL049631, AC007227, AL021878, Z98946, AC002470, AC005343, Z93023, AC002994, AL023803, AL034423, AC004674, AL022336, AL031767, AL121769, AL049760, AL031311, AL050307, AP000884, AC006160, AC007055, AL021977, AC008154, AC007065, AC006251, AC010205, AC004953, AF187320, AC005512, AC005049, AL022326, AC005695, Z95114, AC005777, AP000514, AL021578, AC005747, AC007686, AP000096, AP000240, AC009247, AL109963, AP000694, Z97989, AC007371, Z98742, AL022323, AC000091, Z74739, AC006080, AL035661, U91323, AC005358, AC018725, AC005971, AL031388, AC005940, AP000952, AL096701, AC002400, AC006312, AC004841, AB023051, AC005102, AC005535, AL035403, AL031432, AC004804, and AC004821.
HTGED54	5930	729223	1 - 449	15 - 463	
HTGED59	5931	711417	1 - 327	15 - 341	AA301680, AI819419, AA694596, H96248, AA720531, AI640717, AA825809, AA639040, AA947352, H68210, AI520925, AA225495, AA056619, AA363890, T99365, R00693, AA084320, AW129188, AA340581, AA218684, AA745507, AA862243, AI002950, AA835702, AI560241,



HTGED69	5932	754761	1 - 178	15 - 192	H05066, N26159, AA171400, H24331, AW338376, A1890297, H23238, AA211925, A1690520, N71264, A1926126, AW085626, H97551, AA484671, AA744172, AW022796, AA744278, AA601343, A1805699, T26553, AA598579, AA772493, N24013, AA730530, AA526339, AA602579, AA372646, T57615, AA262079, A1623505, U69568, AC007011, AC005083, AC005409, AC003041, L78833, AC005534, AC005225, AL031666, AL050341, AC004067, AC008123, AC005837, AC000379, AC005800, AP000958, AC002312, U85195, AE000658, AC007066, AC004810, AC004525, Z95703, Z73495, AC004168, AF111168, AC004816, AC005324, AC006474, AC006475, AF064859, AP000349, AC007015, Z97876, AL078462, AL035455, AL035684, AL078476, AC007050, AC002369, AC002302, AL034420, Z93928, AC005913, AC004584, AC006039, AL020997, AC006966, AL135960, AJ131016, AC004941, AC002070, AC002991, Z93023, AC004196, AF207550, AC007695, AC007541, AL022146, AC007934, AC004634, AC005049, Z82201, AC005527, AC005512, AC006011, AC005041, AC005914, AC008119, AC008115, Z82249, AC004531, AF113129, AL080243, AL139054, AC003014, AC004543, AC005082, AC006071, AC002038, AL008639, AC007542, AC007877, AL031286, Z95114, AF217403, AC005539, AL049821, AC002524, Z98946, AC005696, AC000052, AC004019, AC005372, AC005529, AF067844, AP000510, AC004974, AC005821, AC005531, AL135745, AP000966, AC005048, AL109628, AL049765, and AL133353.
HTGED77	5933	771825	1 - 486	15 - 500	AC005971.
HTGEF78	5934	769764	1 - 154	15 - 168	
HTGEG76	5935	769765	1 - 418	15 - 432	AC009044.
HTGEL46	5936	685425	1 - 445	15 - 459	
HTGEL54	5937	728905	1 - 400	15 - 414	N71581, N73880, N99573, A1283842, AA928413, AC007993, AC006312, AC004678, AF030453, AC005088, AC004983, AP000353, AL132992, and AC003010.
HTGEL55	5938	684871	1 - 329	15 - 343	
HTGEO46	5939	674409	1 - 495	15 - 509	
HTGEO86	5940	703733	1 - 409	15 - 423	
HTGEO94	5941	723097	1 - 629	15 - 643	AC004918.
HTGEP20	5942	799683	1 - 388	15 - 402	H65476, AA496014, AA461080, AA229933, H65475, AC002310, AC005071, AC006948, AC004801, Z79997, and AL078611.
HTGEP92	5943	789681	1 - 785	15 - 799	H40324, AA738283, A1268731, A1298787, N54397, AA642809, W24312, AA837771, AA701131, F33126, F02342, AA640310, AA741403, AA747757, A1370170, AA229422, AA340226, A1434037, AA503018, AA177013, AA740571, A1915081, A176257, AL119563, AW151761, AA605243, AA135360, AA365893, N64587, H79586, A1904445, R83068, AW302670, A1927275, AW388886, H43183, N52501, A1080732, AA582350, AA748826, AA629679, AA579281, AA133332, AW407632, AL042667, AL042670, A1349130, AA565534, AA587215, A1858272, AA578066, AA525253, AC006312, AL022322, U29119, AL109963, AC005071, AC007016,

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HTGEQ11	5944	967047	1 - 380	15 - 394
HTGEQ34	5945	703443	1 - 416	15 - 430
HTGEQ40	5946	711181	1 - 120	15 - 134
HTGEQ61	5947	741828	1 - 395	15 - 409
HTGEQ68	5948	753031	1 - 432	15 - 446
HTGER72	5949	683469	1 - 380	15 - 394
HTGET46	5950	719048	1 - 332	15 - 346
				AL049569.
				AL300823, AA812684, AC004477, AF053356, AL024507, AC005736, AC006942, AC004605, and
				AW074332, AA780818, AA688303, AI668951, AL420747, AA640305, AI174703, AL044438, AA569565, AA601333, AI270280, T96028, AI613459, AA631434, AI114851, AA568303, AA568311, AW275640, AL047685, AA493546, AL048651, AA180056, AW452106, AI275380, AA669225, AI150693, AA846944, C14144, AL079508, AA548142, M85807, H59296, AI918550,

					AA664544, AA547956, AA572982, AI377411, AI199578, AL048969, AI819419, T52807, F30357, AA368835, AA984656, AI791856, AI610814, AA482698, AL135707, AL044217, AL049646, AL109865, AL122020, AC004386, AC002418, AC005011, Z98946, AL096763, AL031282, U50871, AC007066, AC006084, AC004530, AC006034, AC004938, AC006479, AC005519, AC005180, AC005944, AL121603, AL031311, AL031321, Z69732, AF067844, AC004000, AC006026, AL035420, AC008372, AC005531, AL031321, Z69732, AF067844, AC007021, Z97630, Z97196, AC005971, AC006480, AC005610, AP000947, AC004943, AC005261, AL096701, AC006441, AC005406, AP000116, AC005839, AC004242, AC002425, AC006312, AL035400, AL096678, AC005089, AF111167, AL139054, AC005695, AL035249, AL022721, AL034379, AC018633, AL034423, AP000228, Z85986, AB023051, AL080243, AC002074, AC006450, AP001068, AP000140, AC004854, AC002480, L78833, AP000240, AP000962, AC005215, AL135744, L78810, AC005696, AC006211, AP000088, AC005484, AL021392, Z93017, AP000008, AC004167, AC002991, AC006324, AL035422, AP000512, U89336, AP000067, AL031846, Z92844, AC007676, AC007917, U52112, AL080250, AC002470, AC005013, AP000280, AF196971, AC002380, U91327, AC004801, AF030876, AP000107, Z83840, U85195, AC004231, AC006166, X02883, AE000662, M94081, Z93928, AL117258, AL133241, AC002314, Z98048, AL031672, AC008044, AL049648, AL008629, AC005726, Z54073, AL049776, AC004929, AP000469, AC007543, AC003029, AC005529, AL022315, AC002558, AC004851, and AL049844.
HTGET82	5951	778928	1 - 558	15 - 572	Z98751.
HTGEU06	5952	935470	1 - 425	15 - 439	
HTGFC20	5953	668924	1 - 429	15 - 443	
HTGFC70	5954	757193	1 - 351	15 - 365	N86992, AI241637, AA483583, AA830169, AA506744, AI021990, AA332991, AI283064, AA807583, AA229218, AA652422, AA229121, AA229188, N73511, AA904211, T29897, F25301, AA679061, AI207491, AI218171, AW103753, Z25411, AI079901, AI148404, AI683846, R73803, AI683385, AA847570, AA584564, AI627868, AI744175, AA657373, AA513141, AA513181, AA650053, AA364869, W04322, AA468974, AA230025, AA468371, AA224966, AA228368, AA055307, AA224889, AA468505, AA228269, AA641112, AA224816, AI701379, AA467943, AI669514, AA524616, AA614254, T40617, AA714930, AW410116, AW390309, AA448221, AA121919, AW008093, AA363260, AA745524, AA744001, AA744272, AA744455, AA302628, AI751191, AA745588, AA743966, AL037929, AL037932, AL037923, AI923135, AA594510, AI660629, AI417675, AA877143, AI738813, AI619953, AA780046, AI538779, AA196824, AA988666, AC005884, Z94044, AL035451, AC003956, AC005747, AC009241, Z82176, AC010849, AC002365, Z84814, AP000230, AP000144, AI109967, AF001549, U50871, AP000035, Z98036, AC004686, D84296, AP000150, D83253, AL022147, AP000009, Z94161, AF157623, AC005105, AD000684, AC002128, AP000261, AP000100, AC006478, AC004812, Z97832, AF165147, AC007263, AC007543, AC004451, AP000350, AC005808, AC002068,

					AC006130, AL049745, AL035071, AC004016, AC006076, AC005037, AC007450, AC004813, AC007637, AC007075, AD001502, AC002477, AC006019, AL117352, Z97989, AC006947, AC005180, AC002123, AC004794, AL121934, AC005228, AP000343, AC007228, AL034451, AC002997, AC004514, AC006315, AC007681, AL109653, AC005921, AL133246, AC006571, AL136168, AL079339, AL022726, AC004025, AC005722, AC006254, AC006059, AC006953, AC015853, AC003077, AL049635, AC005104, AC004972, AC005599, AC007226, AC005053, AC005071, AP000358, AC004017, Z84718, AP000359, AC002565, AC004028, AP000351, AL031846, AC004883, AL022336, AC006285, AP000352, and Z97200.
HTGFK43	5955	669222	1 - 310	15 - 324	AI027665.
HTGFN46	5956	974106	1 - 487	15 - 501	
HTGFO51	5957	866957	1 - 402	15 - 416	
HTGFO75	5958	767032	1 - 267	15 - 281	
HTGFP07	5959	952555	1 - 329	15 - 343	AA564583, and AA583827.
HTGFP49	5960	722626	1 - 227	15 - 241	
HTGFP59	5961	738974	1 - 150	15 - 164	AL024508.
HTGFP62	5962	742908	1 - 519	15 - 533	
HTGFR80	5963	810302	1 - 377	15 - 391	AW392539, T08628, R19000, W40396, T07400, and Z98043.
HTGFW29	5964	690276	1 - 235	15 - 249	AC009304.
HTGFW63	5965	744678	1 - 711	15 - 725	AI637766, AA203538, AI341753, W35269, W23591, and AL137383.
HTGFX16	5966	656777	1 - 323	15 - 337	AA351139.
HTGFX82	5967	779055	1 - 341	15 - 355	
HTGFZ03	5968	923443	1 - 262	15 - 276	AI870366.
HTGFZ35	5969	707730	1 - 297	15 - 311	
HTGFZ58	5970	735683	1 - 331	15 - 345	
HTGGL08	5971	958583	1 - 463	15 - 477	
HTGGL11	5972	966328	1 - 318	15 - 332	AC002359.
HTGGL23	5973	974590	1 - 435	15 - 449	
HTGGL32	5974	698714	1 - 412	15 - 426	AA252763, AA558697, H59023, AI824562, AL043721, AW338086, AI205126, AA059154, AI251002, H64777, AI469172, AA605274, AA584581, AA745410, F34558, AA318652, AI648558, AL079804, AI339850, AW193295, AA098922, AI284640, AI286356, N27353, AA340747, AA507547, AI469796, AI818620, AA515224, AI623898, AI890923, AA594145, AW129001, AA317170, F37169, AL039958, AI003734, AW166815, AA747472, AI919265, F27015, AI962050, AW438643, AW029038, M62249, N71724, AI053672, AA916039, AI250019, AA515051, AA587604, AA077817, AI281881, AI565245, AW440836, F36273, AI564185, AI929531, H88666, AA491762, AA572975, AI038785, AI334443, AI951863, AI918421, AW162049, AI355224, AI904894, AA652057, F29989, AI537955, AA095511,

AA115968, AL043756, AI500454, AA649642, AW236342, AW088058, AW193432, AW338869, T06556, AA598586, AI282336, AA862173, AI367975, F18974, AI917271, AA515435, AW406162, AI049722, AA483034, AI350211, F36373, AW408717, AA229785, AW272641, AI471481, AI133636, AI358571, AW261871, AI567674, H64560, AI4339360, AI732186, AI697208, AI133164, AI674873, AA713815, AI613280, AW008317, AA443390, AW151884, AL120674, AI688846, AI307201, AI921296, AA886584, AA917683, AA406447, AA654627, AA745582, F29702, AA054106, AI679782, AA557879, AA177061, AI375710, AI281903, AA826303, AA744031, AW074398, AA743980, AI608626, AA569187, AA284179, AA932099, R13151, AI287651, AI358229, AA629419, H78195, AA100372, AA347927, AI431303, AI282832, AA744074, AA340003, F19258, AA745355, AA744088, AW406755, AW193265, AW086257, AL041690, AW084253, AI365988, AL037683, F25203, AW440976, AL046205, AW339687, AW419262, H72688, AA502155, AI446464, AL118947, AI635272, AA099892, AI110770, AW270270, AA805373, AI471462, AA113186, AI125788, H86264, AW162489, T40077, AI370878, AI281465, AI148277, AI279165, AW276827, AA530859, AI148446, AI049634, AI150670, AI252554, AI286264, AL046409, AI341664, W60516, AI802526, AI312149, W95976, F27842, AI120687, W95841, AL038474, AL040913, AL042753, F36404, AF150152, AA683031, AI053429, AA557686, AA224091, AA470985, AI659826, AA659083, H37777, AW102955, AI379719, AA021552, AI281807, AI469003, AA581146, AI540107, T07451, AA229444, AI749284, N63352, AW238542, R91994, F24284, AW080004, T06828, H00934, T07287, T08638, AA634146, AA578918, AI343063, AA780929, AA587256, AI888365, AI007099, AL021332, AC005901, AP000459, Z68872, X75335, AF147277, AC004966, AC004470, AC007685, AC008044, AL008728, AC003971, AL049745, AC004057, AC007283, AC005924, Z95114, AC004984, AL031311, S75337, AP000045, AP000113, AL031662, Z97845, AC002982, AC000027, D87014, AC004088, Z97630, AL080276, AC012331, AL121694, AC006045, U14702, AC007429, AP000402, AL031681, AC009223, AC003048, AF015163, AC005391, AC004996, AC005194, AP000553, AC009516, U02048, AC005739, AC008975, AI239318, AC005723, AC006013, AC005099, U18390, AL096775, AL049698, AP001065, U18399, AC006476, X67277, AC004785, AL008716, AP000349, L10641, AC006019, AC007051, AC007919, M87919, AC005598, AL049691, AC000024, D87011, D87009, AC006150, AC006352, AC002509, S70694, AC005144, AL035681, AC000085, AC004999, AC005722, Z97054, Z69921, AC007450, AC002059, AP000496, Z54146, AL049764, AC007292, AC004221, AC004637, Z98752, AC005365, AC005057, AP000017, AP000158, AC005911, AC002119, AC005846, AP001068, AC006458, Z82203, AC006965, AC004099, AL023806, AL033381, AC006512, AC005531, AC006948, AC007514, U47924, AC005406, AJ011930, U14695, U14700, U14701, U14703, U14705, AJ010230, U14691, U14685, U14686, U14687, U14688, U14689, U14699, U14710, AC005759, AC006127, AC004475, AC000041, AP000011, AP000152, AF207550, AC000025, AL022328, AL079340, AC005070, AL021453, AP000503, AF134726, AC004025, AC005902,
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HTGGL43	5975	714932	1 - 204	15 - 218	AL031224, AC005291, U95742, Z82216, AF093117, U12580, AP000561, AL049743, AC000118, Z98256, AC006539, Z98754, AC004600, AL034548, AC007262, AC010170, AC007676, AC005231, AC007207, AC002299, AC004496, AC007216, AF010238, AF015162, AL080316, AC004876, Z74739, AC005071, AJ238481, AL096867, Z98884, AC002485, AC006132, AC002488, AC006002, AL033392, AB020859, AP000359, Z99916, AC006597, AC004796, AL031650, AC005585, AC006197, AL096774, U65406, Z71187, AC005899, AC006511, AC008039, AC005520, AC006208, AC008125, M87916, U66531, Z97196, D87675, AF140763, AL034452, AC005785, AL031223, AL049576, AC006055, AF064724, Z94722, AL023513, AL049643, AC004126, AF196779, AC002365, AC005389, U70984, M87923, S70697, AC002432, AL117355, AL035411, U12583, AL078640, AL009176, AC005704, AL035420, AC007161, AC005866, AC005295, Z84488, AC007227, AC005510, AL031387, AC007878, AC004522, AC005399, AC005031, AL121655, AC004986, AL031289, S42659, AC001053, AC004741, U52427, AC006432, AC008055, AL022315, U75285, Z99754, and Y11107.
HTGGL79	5976	774657	1 - 254	15 - 268	AA826138.
HTGGM20	5977	669083	1 - 586	15 - 600	AW083689.
HTGGM13	5978	869239	1 - 580	15 - 594	AL557095, and AL136295.
HTGGM92	5979	927051	1 - 345	15 - 359	AL021453.
HTHAA47	5980	503638	1 - 421	15 - 435	AA383871.
HTHBA07	5981	954426	1 - 190	15 - 204	AA383894.
HTHBA18	5982	502818	1 - 115	15 - 129	
HTHBA68	5983	915256	1 - 600	15 - 614	AA383725.
HTHBC31	5984	578568	1 - 456	15 - 470	AA383947.
HTHBC37	5985	502935	1 - 246	15 - 260	AA383950, and AA383958.
HTHBG67	5986	964562	1 - 806	15 - 820	AW367259, and AB029039.
HTHBK65	5987	526716	1 - 119	15 - 133	
HTHBL65	5988	921965	1 - 427	15 - 441	W76016, and AF190465.
HTHBO09	5989	531115	1 - 231	15 - 245	AF000701.
HTHBQ94	5990	529671	1 - 317	15 - 331	
HTHBU75	5991	557957	1 - 121	15 - 135	
HTHBW69	5992	757741	1 - 233	15 - 247	
HTHBY64	5993	712474	1 - 480	15 - 494	AC000073, and AC000092.
HTHCA17	5994	572407	1 - 284	15 - 298	
HTHCA75	5995	712649	1 - 1007	15 - 1021	AA203124, AA780042, AA215401, AF048727, AC002086, AC002385, AC004835, Z92545, AC004690, AL050337, AC004087, and AL024493.
HTHCB68	5996	660309	1 - 345	15 - 359	AF132607, and AB006626.

HTHCB83	5997	578858	1 - 309	15 - 323	
HTHCC54	5998	578877	1 - 328	15 - 342	
HTHCD17	5999	664274	1 - 324	15 - 338	<p>           AI219546, AA669108, AA812176, T64527, AI811076, AA658101, AA452879, AI537814, N55560, AI261932, AI863180, AI270092, AW197990, AI801031, AI540367, AA987277, AA632493, AA632484, AI659402, AA426571, AA719317, AI248494, AI040524, AA602233, AI718218, AI707565, AI183878, AI279229, AI752815, N71340, N71390, AI190467, AI459213, AA347735, AA317898, AI133804, N55012, AA658540, AI000114, W24602, AW197508, AA484366, H65476, H65475, T40298, AA496014, AA767864, AI573180, R92296, AA486859, AA461080, AI065059, AI355433, N34481, AA287259, H72049, H73336, AA584675, AA485323, AI092461, Z98751, AC000057, AF121781, AI031390, AI049776, AC016026, U91323, AP000518, AI031848, AC005899, AI022323, AC007228, AC005295, AC005800, AC007216, AC002312, AI035089, AC002511, Z84466, AC005257, AC002126, AI033504, AC002054, AI096791, AC007845, AC007878, AC005399, U95742, AC000379, AP000032, AI034429, AC005512, AC006211, AC0022517, AI008721, AC003036, AC006057, AC002549, AC009399, AC002301, AP000553, AC007201, AC009516, AC004797, Z54147, AC009363, AC007114, AC006946, AC006441, AC004590, AI022721, AC008064, AC005519, AF002993, AC002472, Z86090, AI079342, AC009501, AC007664, AC004813, AC007546, AC005529, AC008018, AC008124, AC005520, AC005225, AC002563, AC006953, AF050154, AC002996, L78833, AI031985, Y17293, AC005362, U91326, AC002544, AC007182, AF196971, Z75888, AC004167, AC002425, AI133485, AC004882, AC003109, AC007637, AC000068, AI033381, AC007786, M19364, AI021154, AI031670, Z85987, AC008928, AC003071, AC004084, AC005015, Z97053, AI121825, Z93017, AC004531, AC002470, AB017335, Z54334, AC004985, AI122021, AI049540, AI109952, AC005233, AI022067, AC005368, AC016025, AC004079, Z75887, Z83853, Z94802, AI049553, AI132777, Z98941, AC006430, U91321, AR060472, AI022336, AC004453, AI109627, AC005482, AC003982, AC005694, M10065, AC008101, AC002073, AC004678, AI021391, AF038458, Z82184, AP000270, AC004491, AI009181, AC000026, AC003964, AC003012, AC006450, AI049712, Z79997, AP000514, AI035413, Y18000, AI121653, AJ006216, AC002990, AC004966, AI133500, AC004104, AC002059, AC003010, AC000086, Z97630, AP000167, AP000052, AC003666, AC007792, AI008718, AC004149, AC002565, AC004534, AC005803, and AC007687.         </p>
HTHCD91	6000	973272	1 - 589	15 - 603	
HTHCG11	6001	967275	1 - 325	15 - 339	
HTHCG86	6002	578843	1 - 357	15 - 371	
HTHCH22	6003	630239	1 - 673	15 - 687	AA085994.
HTHCJ42	6004	578875	1 - 279	15 - 293	
HTHCK38	6005	579080	1 - 402	15 - 416	AF190465.
HTHCK42	6006	870355	1 - 403	15 - 417	

HTHCK91	6007	922873	1 - 330	15 - 344	AC011311, and AC005820.
HTHCM08	6008	959719	1 - 355	15 - 369	AA551975, Z98743, and AL079300.
HTHCM19	6009	842036	1 - 436	15 - 450	AA572753, AA836605, AA302978, AI445373, R67701, AA496309, AI306717, AA558404, F23307, AA376358, AI283938, AI537424, AW237905, AI354333, AA309634, AA610255, H67064, AI266359, AA302660, AI476049, AI798313, AA297698, AW243945, AA502991, H79586, F01222, AW008184, AI933716, AI800343, R83068, AA747757, AA476739, AA176328, H49372, AA299221, AA102737, AI431513, AI370170, AA230146, AI816537, AA356376, AA225358, AI815583, AA632556, AA484256, AI278130, AI628859, AA714073, AA368759, AA612727, T48829, AA831801, R33091, AI185394, F35684, AA834807, AA372311, AA487569, AI915081, AA713735, AI973173, T40629, AI300818, AW265688, AI310992, AA643829, AA604831, AI031733, AC005274, I34294, AC000120, AC004602, AC005828, AC005412, AC004884, AC004448, AC006509, AI117344, AI035685, AC004129, AI133246, AL022163, AC004895, AI050348, AC002468, AL080250, AC009501, AI031848, AL022726, AC004817, U47924, AF015262, AC005231, AJ229043, AL050343, AL021939, AF111168, AC002988, AF027390, AL022336, Z85987, AC005971, L78833, AC002996, AL078593, AC005527, AI133243, AC007955, AL021154, Z98941, AI049832, U63721, AL022721, AC005255, AF196779, AC005529, AC009247, AL022476, AI135744, AI031311, AC006536, AC004253, AI133448, AL023575, AC007676, AC006312, AP000115, Z83844, AC005914, AP000343, AC007934, AC007371, AC004000, AP000121, AC005911, AC007666, U85195, AC002395, AP000045, AP000113, AI133163, AI109628, AC002091, U62292, U89335, AE000658, AC004008, AC004106, AI121653, AF075074, AC000039, AI117258, AL023581, AC005366, AP000502, Z93241, Z98051, AC007050, AC002477, AP000305, U95742, AC008372, AL049795, AI035249, AC007363, AC005820, Z98946, Z98884, AD000833, AC005940, AB020868, AC002303, AC007216, AL023653, AC005755, AC015853, AC004125, Z95114, AF134726, AC006241, AL132712, AL031433, AC005520, Z86090, AC005800, AC003695, AP000501, AP000103, AP000047, AC008989, AP000512, AC005081, AC004874, AC007917, AC010077, AP000553, AL049843, AC008154, AC004962, AL031577, AC005003, AC005189, AP000359, AI031427, AL035658, AL033392, AC007225, AC004854, AC002126, AC005551, AC007308, AC004797, AL031588, AC007358, AC004887, AC002316, AL079295, AC005921, AC005859, AP000116, AP000509, AL035400, AL034379, AC004019, AC007324, AC002528, AI109801, AI110292, AF015416, AL035684, AC004984, AC004447, AI122020, AL049697, AI121658, AL022326, AP000694, AC002312, AC008044, AP000269, AC005476, AL049830, AC006254, AC002310, AC003071, AC002350, AL049856, AC006064, AC007444, AF196972, AF047825, AL032821, AC005089, AC007277, AC007688, AC006317, AC002119, AC004851, AC007283, AC005082, AL031662, AC005228, AC004659, AF126531, AL008726, AC006430, Z97030, AL031602, AL031295, AC007066, AC005786, AC005291, AF196969, AI109807, Z85986, AC005225, Z93930, AL035420, U82828, AC005190, AC006023, AP000032, AL049569,



						AC005746, AF001548, AC000026, AC004985, AC005599, Z95115, AC007536, AP000350, AL049643, and AC002106.
HTHCM39	6010	578831	1 - 338	15 - 352		
HTHCN38	6011	578826	1 - 421	15 - 435		
HTHCO28	6012	705888	1 - 458	15 - 472		AC004918.
HTHCO92	6013	578757	1 - 71	15 - 85		AA724718, and AW297844.
HTHCQ31	6014	926330	1 - 622	15 - 636		T80675, and AA836398.
HTHCQ63	6015	959994	1 - 348	15 - 362		AP000172, AP000057, AP000125, and AP000330.
HTHCR16	6016	578722	1 - 309	15 - 323		
HTHCT64	6017	856477	1 - 407	15 - 421		
HTHCU43	6018	578849	1 - 285	15 - 299		AA758534.
HTHCU85	6019	578851	1 - 300	15 - 314		
HTHCV21	6020	671098	1 - 230	15 - 244		AA678938, AA703089, AF057177, AF159056, AC006033, and AC007245.
HTHCV22	6021	419714	1 - 320	15 - 334		
HTHCV59	6022	937393	1 - 381	15 - 395		
HTHCW35	6023	707732	1 - 254	15 - 268		AL438940.
HTHCW45	6024	578823	1 - 217	15 - 231		
HTHCW83	6025	578828	1 - 238	15 - 252		
HTHCX84	6026	578874	1 - 289	15 - 303		
HTHCY12	6027	971165	1 - 501	15 - 515		AA287931, AL341725, AL885252, AA481510, AA910745, and AA651762.
HTHCZ96	6028	578876	1 - 292	15 - 306		
HTHDD40	6029	707065	1 - 354	15 - 368		AA393224, AL016087, D81712, AA196338, AA935945, AL366709, AL187411, AL138856, AL300972, AL208569, AL681313, AL306498, AA192299, AL269875, AL735291, AL749426, AL971045, AL078265, AL308072, AL479418, AL870613, AL347395, AL273636, AA780190, AL469870, AL971121, AW005093, AL310114, AL142657, AA917590, AL094689, AL273866, AA975941, AA626296, AA620996, AA435851, AA416923, AA770226, AA443766, N73669, AA416858, AL266465, AL311563, AA196360, AA026598, AL306499, AL690271, AA196353, AA025864, AA723525, AL264128, AL292139, AA469915, AL681934, AA476818, AL680820, AA806060, AW138575, AL919372, N78510, W84495, AL735033, W84355, AA417880, AA192313, AL804297, AL914087, and AF161386.
HTHDE26	6030	869483	1 - 809	15 - 823		Z59408.
HTHDE44	6031	791641	1 - 374	15 - 388		AL031120.
HTHDE91	6032	967215	1 - 295	15 - 309		AC004854.
HTHDF38	6033	870339	1 - 684	15 - 698		H88681.
HTHDH24	6034	574675	1 - 493	15 - 507		
HTHDH34	6035	490926	1 - 118	15 - 132		

HTHD131	6036	959718	1 - 401	15 - 415	
HTHD143	6037	870335	1 - 353	15 - 367	AP000501.
HTHDM25	6038	578878	1 - 320	15 - 334	AA230122.
HTHDM65	6039	579199	1 - 239	15 - 253	AA639236, and AA838091.
HTHDM69	6040	578834	1 - 370	15 - 384	
HTHDP70	6041	578882	1 - 294	15 - 308	
HTHDQ85	6042	966858	1 - 314	15 - 328	
HTHDR09	6043	579076	1 - 206	15 - 220	AC005081, and AC005015.
HTHDR24	6044	578848	1 - 354	15 - 368	
HTHDU80	6045	764136	1 - 598	15 - 612	
HTJAB35	6046	491273	1 - 507	15 - 521	AA504694, AW372019, AL133355, AC005484, AC007151, AC005527, AF053356, AL049872, AC005529, AC016026, U95742, AL049795, AC005295, U91321, AC007845, AC002365, AC002404, AC004675, AC006101, Z98051, Z98941, AC007842, AF088219, AC013256, AL096701, AC005664, AP000501, AC004895, AL031595, Z93023, and AC005102.
HTJAB39	6047	705432	1 - 468	15 - 482	AA078502, AC000385, and AC004924.
HTJAD26	6048	681865	1 - 613	15 - 627	
HTJAE28	6049	703321	1 - 288	15 - 302	Z93242.
HTJAE42	6050	668339	1 - 384	15 - 398	H97454, and AI703400.
HTJMB71	6051	760226	1 - 832	15 - 846	AI274138, AA828653, AA746171, AA955034, AC004834, AC006238, AC006050, and AL031774.
HTJMD95	6052	924240	1 - 459	15 - 473	
HTJMH80	6053	774407	1 - 549	15 - 563	W28136.
HTJMQ69	6054	754605	1 - 310	15 - 324	
HTJMR65	6055	729039	1 - 108	15 - 122	
HTJMT23	6056	948518	1 - 354	15 - 368	
HTJMT75	6057	766883	1 - 551	15 - 565	AI033483, and AA011410.
HTJMU34	6058	870316	1 - 688	15 - 702	AA248207.
HTJMU77	6059	771677	1 - 737	15 - 751	AA513791.
HTJMU87	6060	870315	1 - 303	15 - 317	
HTJMV80	6061	775766	1 - 658	15 - 672	T55626.
HTJMW42	6062	713132	1 - 506	15 - 520	AC007845, AC016025, and AC016026.
HTJMX71	6063	759910	1 - 490	15 - 504	
HTJMZ90	6064	787655	1 - 343	15 - 357	
HTJNB83	6065	766881	1 - 261	15 - 275	
HTJNC42	6066	713142	1 - 522	15 - 536	AA465661, and AB002390.
HTJNC53	6067	793328	1 - 320	15 - 334	AA311589, H14706, AA215801, R59006, H23078, H04923, T80563, and AA160069.

HTJND12	6068	870311	1 - 526	15 - 540	
HTJN142	6069	924726	1 - 360	15 - 374	AI147197, and AI307151.
HTJNK36	6070	924939	1 - 427	15 - 441	R61153, F07094, AC007845, AC016025, AC016026, Z79966, and Z56830.
HTJNM52	6071	795110	1 - 429	15 - 443	W39786, AL046597, AA089711, AA353463, and W07210.
HTJNQ25	6072	771941	1 - 553	15 - 567	AL118563, AA206533, AL118569, and AB023187.
HTJNR19	6073	781702	1 - 265	15 - 279	
HTJNS23	6074	870336	1 - 706	15 - 720	
HTJNV55	6075	931039	1 - 297	15 - 311	AA362919.
HTOAA48	6076	870027	1 - 327	15 - 341	
HTOAF15	6077	866201	1 - 1378	15 - 1392	AA552784, AA654062, AA654973, AC002565, AC004491, Z85986, AC000353, AF001548, AP000553, AC002115, AC004878, AC004883, AL031846, AC002316, U91321, AC005037, AC005488, AL022320, AC007021, AL049553, AL121595, and AC006120.
HTOAI35	6078	799686	1 - 108	15 - 122	
HTOAI69	6079	529555	1 - 247	15 - 261	AC007676.
HTOAI93	6080	751902	1 - 222	15 - 236	
HTOAK34	6081	966800	1 - 1271	15 - 1285	AW408167, AA491322, AA505126, AL340133, AA831203, N27153, AA053564, AA809481, AF181985, and AF179867.
HTOAK36	6082	921745	1 - 319	15 - 333	
HTOAO19	6083	954183	1 - 193	15 - 207	
HTOAO75	6084	530192	1 - 210	15 - 224	
HTOAT80	6085	530186	1 - 272	15 - 286	AC005071.
HTOAU62	6086	738214	1 - 386	15 - 400	
HTOAU94	6087	620370	1 - 514	15 - 528	
HTOAW19	6088	530114	1 - 189	15 - 203	
HTOAW26	6089	530116	1 - 97	15 - 111	
HTOAW37	6090	507322	1 - 378	15 - 392	H16881.
HTOBA06	6091	960618	1 - 382	15 - 396	
HTOBA10	6092	839919	1 - 389	15 - 403	AC002433.
HTOBE15	6093	715538	1 - 361	15 - 375	R43482, and R43481.
HTOBF03	6094	925407	1 - 303	15 - 317	
HTOBF07	6095	954184	1 - 127	15 - 141	
HTOBF35	6096	530325	1 - 302	15 - 316	
HTOBG27	6097	682263	1 - 441	15 - 455	N55594, and AF176915.
HTOBG70	6098	740977	1 - 134	15 - 148	
HTOBO11	6099	966734	1 - 553	15 - 567	
HTOCF92	6100	530009	1 - 399	15 - 413	R87130.

HTOCK26	6101	523838	1 - 363	15 - 377	AW449222, and AC006427.
HTODB23	6102	530149	1 - 296	15 - 310	
HTODC33	6103	921426	1 - 536	15 - 550	R70629, AW340510, AA743712, AI239711, AA934974, AA970927, AW296573, AA453769, AI242482, AA831667, AA278373, AI767205, AA292622, AA063568, AW361666, AW361612, AW361497, AA287288, AA035698, AW361613, AI219908, R30835, R27605, R70528, AA837400, AA938942, AW361673, AW361492, and AB018289.
HTODE04	6104	927826	1 - 329	15 - 343	
HTODE78	6105	530397	1 - 325	15 - 339	
HTODG07	6106	880911	1 - 203	15 - 217	
HTODG10	6107	968505	1 - 331	15 - 345	
HTODG16	6108	909952	1 - 478	15 - 492	AA252781, AW403969, and AL041242.
HTODG47	6109	799691	1 - 514	15 - 528	T58456, and Z93020.
HTODG55	6110	852560	1 - 357	15 - 371	
HTODG58	6111	869998	1 - 110	15 - 124	
HTODG60	6112	558007	1 - 405	15 - 419	AL035667.
HTODG83	6113	676384	1 - 122	15 - 136	
HTODH04	6114	925386	1 - 467	15 - 481	
HTODH37	6115	708892	1 - 419	15 - 433	
HTODL81	6116	507295	1 - 339	15 - 353	Z55019.
HTODL85	6117	799701	1 - 430	15 - 444	M85453, AL031313, AC005027, AC007380, AC006059, AC004065, and Z97198.
HTODM58	6118	811293	1 - 208	15 - 222	
HTODN21	6119	869967	1 - 150	15 - 164	
HTODN27	6120	684343	1 - 413	15 - 427	AF150267.
HTODN68	6121	527862	1 - 310	15 - 324	AF000996, AF000995, AF000994, and AC006376.
HTOEA06	6122	960551	1 - 300	15 - 314	M85667.
HTOEA12	6123	967754	1 - 345	15 - 359	
HTOEA25	6124	523546	1 - 115	15 - 129	
HTOEC81	6125	529834	1 - 205	15 - 219	
HTOEC94	6126	529839	1 - 289	15 - 303	AC004168.
HTOED10	6127	839798	1 - 305	15 - 319	AB033094.
HTOED61	6128	742158	1 - 326	15 - 340	
HTOEG69	6129	967562	1 - 136	15 - 150	
HTOET10	6130	968492	1 - 304	15 - 318	
HTOEV37	6131	774641	1 - 127	15 - 141	N68224, N67354, AA534053, AA555161, H08147, AI973260, T49754, AA559007, AA741221, AA741406, AI889391, AI815170, AW152571, AW148470, AI801172, R17748, AA559008, AI361148, AI149828, AI535872, AI862762, AI335343, AI687528, AA873283, AI887750, D56730,

HTOEV40	6132	529822	1 - 416	15 - 430	AA724205, M91395, AA923525, AI868159, AI884507, AI088529, AA843944, AI754671, C18850, AL047714, AI887128, AI203636, R49351, AW304960, AI025980, AI266270, N78996, AA771755, AI284521, AI590380, AI983532, AI701872, AI812104, AW088205, AA555158, AL037579, AA729065, AA039866, AW149188, AI055984, AI356187, AA948673, AA844503, AA716447, AI357575, AI567166, AA864427, AA781287, AW131915, AI567615, AI016814, AI708701, AI569339, AA948326, AW264529, AW173730, AW119035, AI917880, AI338300, N70267, AL047952, AA776091, AA634359, AI023241, AI298320, AW074746, AI367199, AI311007, T96249, AI283537, AI687359, N66270, Z38562, AW268514, AA007156, D56496, D57534, D58194, AA852819, AI744922, AW241346, AA985276, AI491863, AA468218, AW170129, AA746260, AW305377, AI520939, AA468200, C16188, AI582534, AI690349, AA910908, N64254, AW021711, T31245, AW337845, AI356169, AI858397, AI766339, AI873603, AA887384, AI917555, AA468325, AI356978, AW243937, AI624978, AI363736, AI473615, T63046, AW262693, AI357870, AW027859, AI476195, AA975137, AI830023, AW148889, AI624332, AI984869, AI588857, AI623999, AI890602, AI923387, AI624546, AI984874, AW338727, AI924795, AI174614, AW338383, AW261865, AA740176, AW273343, AW167058, T93303, AA524754, T58485, T34321, D57153, R74097, AI804969, AA468252, D57519, N67079, AA708254, D57672, AW193991, AI884463, AI912364, AI623438, T92456, Z36256, D56644, AI911864, AI620441, AI887188, T49753, AW084621, AI979068, T31365, R62949, AI953779, T06806, R56859, AI978655, AA633903, AA812406, D56697, H88939, AW440537, H88746, R43948, D57697, AA173385, AI335183, AW023129, C16259, C16182, R77884, D57476, C16244, C16256, AI361970, AA173140, R67928, C16175, C16228, C16261, AI735323, D56668, D56538, H26265, H05623, AW023819, AA987712, W45132, AA370387, H43894, AA113139, AA083045, AA074156, C16393, H43403, D58338, H88747, AI285675, AA856577, F08907, AA586771, AI827352, AA641695, D57786, AI525653, and AF152462.
HTOEV50	6133	529820	1 - 207	15 - 221	AC006031.
HTOEY72	6134	659494	1 - 242	15 - 256	
HTOFA04	6135	845519	1 - 117	15 - 131	AI680192, AA365356, AC006353, Z95703, AC004945, AI023578, AC005280, AC005951, AL109837, AC002485, AC007876, AL035593, AC006925, AC002558, AL035209, AC006442, AF112374, and AC010077.
HTOFB55	6136	723256	1 - 285	15 - 299	
HTOFB73	6137	742153	1 - 193	15 - 207	AL039392, AI043102, AC003010, and AB002368.
HTOFC70	6138	811291	1 - 342	15 - 356	
HTOFD10	6139	968469	1 - 260	15 - 274	AL031733.
HTOFD31	6140	529674	1 - 190	15 - 204	AL132987.
HTOFD57	6141	529673	1 - 290	15 - 304	AI693633.
HTOFO05	6142	932662	1 - 86	15 - 100	AL023553.

HTOFO41	6143	529617	1 - 102	15 - 116	
HTOFQ48	6144	720880	1 - 303	15 - 317	AA083844, and AC009464.
HTOFT22	6145	939903	1 - 2369	15 - 2383	
HTOFT34	6146	527144	1 - 257	15 - 271	
HTOGA06	6147	960554	1 - 295	15 - 309	
HTOGA25	6148	529959	1 - 173	15 - 187	
HTOGA35	6149	751989	1 - 517	15 - 531	W24682, N36613, T97784, AW450574, AW007560, T79529, W44828, T81699, AA279071, AI492367, W73735, A1767757, W73412, AI650834, and AF086296.
HTOGA51	6150	530331	1 - 109	15 - 123	
HTOGB55	6151	781591	1 - 387	15 - 401	AA336963, and AA835914.
HTOGB92	6152	529810	1 - 316	15 - 330	AC006211.
HTOGC16	6153	927835	1 - 124	15 - 138	
HTOGC20	6154	960094	1 - 331	15 - 345	
HTOGD28	6155	529806	1 - 334	15 - 348	
HTOGD43	6156	650846	1 - 312	15 - 326	
HTOGD50	6157	529805	1 - 421	15 - 435	AA805738, and AC004527.
HTOGI75	6158	869973	1 - 320	15 - 334	
HTOGI86	6159	507294	1 - 319	15 - 333	AI024508.
HTOGR50	6160	529824	1 - 230	15 - 244	
HTOGR65	6161	618316	1 - 616	15 - 630	
HTOGU30	6162	961776	1 - 92	15 - 106	AC005530, AB023048, and AP000511.
HTOHB03	6163	924986	1 - 621	15 - 635	
HTOHB42	6164	714073	1 - 353	15 - 367	
HTOHB66	6165	966688	1 - 756	15 - 770	T95688, and T95163.
HTOHC78	6166	577745	1 - 310	15 - 324	
HTOHC84	6167	537370	1 - 343	15 - 357	
HTOHD27	6168	799676	1 - 189	15 - 203	
HTOHF53	6169	531172	1 - 268	15 - 282	
HTOHG55	6170	537366	1 - 238	15 - 252	AA229326.
HTOHJ60	6171	740611	1 - 328	15 - 342	
HTOHL22	6172	968308	1 - 230	15 - 244	
HTOHL35	6173	537364	1 - 217	15 - 231	
HTOHM54	6174	537363	1 - 261	15 - 275	AC007845, AC016025, and AC016026.
HTOHN24	6175	971728	1 - 129	15 - 143	
HTOHN42	6176	537362	1 - 176	15 - 190	AF076455, and AI034421.
HTOHP13	6177	530350	1 - 403	15 - 417	AA465694.

HTOHS32	6178	678071	1 - 252	15 - 266	AL133485.
HTOHS68	6179	507136	1 - 336	15 - 350	AC005531.
HTOHU09	6180	920734	1 - 155	15 - 169	
HTOHV29	6181	527865	1 - 403	15 - 417	
HTOHX74	6182	507139	1 - 455	15 - 469	AC004020.
HTOHZ61	6183	537371	1 - 392	15 - 406	AL035079.
HTOJA12	6184	851032	1 - 532	15 - 546	
HTOJA68	6185	584946	1 - 331	15 - 345	
HTOJG67	6186	537354	1 - 342	15 - 356	
HTOJK06	6187	954518	1 - 316	15 - 330	
HTOJK08	6188	959996	1 - 587	15 - 601	AA521458, AA465140, AW268432, AI018232, and Z85996.
HTOJN17	6189	537322	1 - 365	15 - 379	
HTOJO29	6190	506720	1 - 410	15 - 424	
HTOJO36	6191	537320	1 - 277	15 - 291	
HTOJO79	6192	537321	1 - 308	15 - 322	
HTOJP32	6193	869941	1 - 457	15 - 471	M62242, AA632589, AA654874, AI380617, AA548921, AA405475, AA078450, AI500315, AA713720, AA478369, H94979, AP000300, AC007051, AC007919, AC005592, AC004475, AF190465, AP000113, AP000045, AL109758, AL031665, AL035422, U07562, AL121580, Z98200, AL049776, AC006211, D31872, I25849, AL031427, AC005005, AC006480, AC006006, A65971, AP000238, AC002550, AC003662, AP000094, AL031289, AC003109, AC006511, Z97195, AP000283, AP000284, Z84477, AC004084, AP000040, AP000108, AP000356, AC005971, S48539, U93096, L29349, L29348, X17648, A28928, AL023799, AF108459, AC005745, AP000288, AB004907, AL096805, AP000543, AF149773, AP000544, Z82190, AP000109, AP000041, AC012627, Z95329, Z95331, Z95400, AC007666, AL035455, AC006285, AC005154, AC007934, AC005535, AC007395, AC002307, AC007371, AC007486, AL031283, AC006536, and AL022318.
HTOIP53	6194	557824	1 - 295	15 - 309	
HTOIQ05	6195	932440	1 - 395	15 - 409	
HTOIR12	6196	537319	1 - 272	15 - 286	
HTOIS27	6197	485268	1 - 493	15 - 507	
HTOIT32	6198	418666	1 - 81	15 - 95	
HTOIW02	6199	920752	1 - 229	15 - 243	AB032254.
HTOIW40	6200	669595	1 - 257	15 - 271	AL133241.
HTOJY09	6201	836003	1 - 518	15 - 532	
HTOIZ34	6202	707039	1 - 228	15 - 242	N44119, AI560189, AC005670, AC004675, AF088219, and AC005332.
HTOJA65	6203	456824	1 - 547	15 - 561	

HTOJA83	6204	574764	1 - 343	15 - 357	AL035209.
HTOJA96	6205	968510	1 - 256	15 - 270	
HTOJB59	6206	574761	1 - 432	15 - 446	
HTOJB67	6207	726577	1 - 589	15 - 603	
HTOJF65	6208	715820	1 - 331	15 - 345	
HTOJG08	6209	869926	1 - 152	15 - 166	
HTOJH24	6210	766963	1 - 378	15 - 392	
HTOJI17	6211	574735	1 - 488	15 - 502	H50743, W89032, and AC004908.
HTOJK48	6212	574348	1 - 424	15 - 438	
HTOJK79	6213	531320	1 - 392	15 - 406	
HTOJK84	6214	952741	1 - 616	15 - 630	AC002480.
HTOJL55	6215	825165	1 - 197	15 - 211	
HTOJL71	6216	574529	1 - 186	15 - 200	
HTOJM06	6217	936089	1 - 870	15 - 884	
HTOJM70	6218	799689	1 - 305	15 - 319	
HTOJS81	6219	711021	1 - 395	15 - 409	
HTOJT90	6220	921016	1 - 457	15 - 471	AA248014.
HTSAA22	6221	415775	1 - 436	15 - 450	AA295824, and AL034374.
HTSEU58	6222	521995	1 - 284	15 - 298	AA055031, A1693951, and AC000353.
HTSFZ77	6223	935620	1 - 253	15 - 267	
HTSGB93	6224	526625	1 - 518	15 - 532	AA725078, A1040862, N90022, A1453081, A1023972, W52909, AA037352, A1470313, and AL035562.
HTSGM65	6225	576062	1 - 422	15 - 436	A1334632, and A1308136.
HTSGW24	6226	971724	1 - 597	15 - 611	AF111170.
HTSHA61	6227	960474	1 - 289	15 - 303	
HTSHD86	6228	773726	1 - 597	15 - 611	
HTSHF47	6229	720403	1 - 314	15 - 328	
HTSHM38	6230	972248	1 - 604	15 - 618	A1907172, C14389, C15076, D59467, D80164, D59787, D81026, D59610, D51799, D58283, C14331, D80022, D81030, D80043, D80241, D80038, D59502, D59859, D80227, D80166, D80195, D51423, D59619, D80210, D80391, D59275, D80240, D80253, D80212, D59927, D80196, D80188, D50995, D80219, D80269, C14429, D57483, D80366, D50979, D59889, D80193, D80251, C14014, D52291, AW177440, AA305409, D80378, D80024, D51022, D80045, AA305578, AW378532, D80522, T03269, AW178893, D51060, C75259, T11417, AA514188, AW179328, D80248, AW369651, D51250, AW352158, D80134, D58253, C14077, AW178762, AW178775, AW177501, AW177511, C14407, D80268, AA514186, D80133, AW176467, AW360811, F13647, AW377671, AW352117, C05695, AW375405, D80132, AW378540,



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HTUAA40	6231	522671	1 - 406	15 - 420	AA127486, AL035460, AL035416, U35114, and AC006449.
HTUAA86	6232	522076	1 - 82	15 - 96	AL096763, AC005822, AC006023, AL031432, and AL009174.
HTWAB64	6233	522058	1 - 273	15 - 287	AA442624, AI382107, AA058620, AI526078, AI557241, AI541450, AI541346, AI557039, AL133054, A82595, and A82593.
HTWAH16	6234	880725	1 - 231	15 - 245	AL031733.
HTWAH51	6235	614968	1 - 290	15 - 304	
HTWAM50	6236	753217	1 - 220	15 - 234	AL135521, AC010205, AC005409, AB033034, and AC005501.
HTWBD74	6237	716756	1 - 305	15 - 319	
HTWBE77	6238	781306	1 - 761	15 - 775	AA058683, AA040633, AI803614, AI798615, AA911057, AI291722, AW057620, AI560233, AI188314, AI393726, H08739, R43944, AI693931, AW082226, AW275123, AA167619, AA831569, AI347306, AA806447, AI819648, AA885238, AI245489, AW269885, AA768000, AA600827, AI074850, AA877438, W38388, AA279508, AW262944, AA036773, N23012, AW051434, AI857899, AA588347, AA030007, AA015960, D20147, AI803231, AI127521,

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HTWBF61	6239	579041	1 - 257	15 - 271		
HTWBF65	6240	576623	1 - 593	15 - 607		AI216401.
HTWBF82	6241	854019	1 - 330	15 - 344		T78602, AI703465, AW388902, AW388986, AW389009, AW388910, and AI640865.
HTWBG40	6242	711271	1 - 463	15 - 477		R93076.
HTWBH73	6243	708331	1 - 290	15 - 304		
HTWBJ15	6244	842014	1 - 616	15 - 630		AA146979, AA147158, AL120141, AI962030, AA630854, AA904137, AA846923, AI783911, AI653776, AI560085, F35097, AW028950, AW082104, AA084609, AA890319, AA102737, AA581247, AA206230, AI291419, AW337381, N48130, W02749, AA715506, R93919, H54252, R83402, AI749578, AA279919, H53284, AA122307, AA452887, AA535756, AA491767, AC004858, AF109907, AC002347, AC005399, AL117258, AC004983, AP001058, AL049829, AC006312, AL021393, AC002302, AJ003147, Z79998, AC007637, AL031427, Z97353, AF196971, AC006241, AP000362, AF111168, Z97054, Z86090, AL078611, AL117330, AC002477, AL035462, AC000029, AC006101, AC002094, AC005180, AL022326, AL133312, AL049874, AC005932, AC004253, AC005102, AC002432, AF130343, AC003667, AF006501, AC005049, Z85986, AC005082, Z84469, AL035684, Z85996, AC005625, AC005476, AC006538, AC005015, AC020663, AC007666, AC006285, AL049743, AD001527, AL030996, AC010170, U95740, AF196970, AC004859, AL031284, AC005514, AC003950, AC005412, AL109854, AC002418, AC004598, AL031587, Z83843, AL023803, AF091512, AC002563, AC005736, AC004386, Z84466, AC006512, AC004257, AC005821, AL022069, AC007488, AC004216, Z69921, AC004950, AF001550, AL022323, AC006057, AL035422, AF196779, Z95331, AL078593, AC002369, AL121578, AC006511, AC003043, AL021878, AE000658, AL050341, AC000353, AL033525, AC004655, AL022396, AC007227, AC002115, AC006582, Z75407, AC002404, AC005184, AL031662, AP000045, AC003982, U91321, AC004000, AC003663, AC004890, D42052, AL031279, AC003010, AL031447, AC008134, AC004815, AL050307, AC007376, AF196969, AC005620, AL121653, AC004033, U52112, U85195, Z48051, AC002991, AC005274, AC003004, AC005379, AC009247, AF104455, AF207550, AP000512, AL035089, AL022318, AL034419, AL049766, AC004967, AL049697, AC004765, AF003626, AL031281, AC004985, AL023553, AL096755, AL022328, AL050309, AB000882, AL109984, AC006126, AC002554, AC004217, AC002091, Z94056, Z82201, AC005088, AC006162, AL031228, AL031291, AC005694, AL079342, AC005193, AC005562, AC005220, AC005261, Z84487,

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HTWB171	6245	935647	1 - 331	15 - 345	
HTWBL88	6246	784364	1 - 166	15 - 180	
HTWBN85	6247	577510	1 - 272	15 - 286	
HTWBO55	6248	732182	1 - 563	15 - 577	R56200, AI393984, AA780790, H06076, and AI287520.
HTWBR04	6249	787303	1 - 305	15 - 319	AA333449, AI123407, AI611123, AF090834, AF097832, and AF153679.
HTWCBZ01	6250	578678	1 - 90	15 - 104	AI475768, D89870, and AC004152.
HTWCA19	6251	582498	1 - 547	15 - 561	
HTWCA76	6252	770109	1 - 363	15 - 377	
HTWCD27	6253	658018	1 - 449	15 - 463	AL035209.
HTWCD40	6254	670812	1 - 466	15 - 480	AW151761, AI917132, AA807704, AL041375, AW089016, AI499954, AA610255, AI791659, AA742815, AI572680, AA297776, AA720582, AA528390, AA846923, AL079734, AW192373, AA808861, AA584655, AA192293, AA904211, AI762528, AI674840, AI206841, F35684, AA229988, AI636422, AI567676, AA584594, AL038842, AI355246, AA282951, H66021, AI912401, AI921765, AW275432, AA452887, AA633875, AA485831, AW151541, AI709174, R70333, AI078409, T47138, AW272815, AA581247, AA601674, AA015948, AI370470, AA568314, AI189682, AI719142, AA633799, AW419389, AW403829, H45698, AA489390, AI634377, AI538404, AA502207, AA669234, AA315361, AI338426, AA634242, AA493226, AA58404, AA160563, AW161016, AI860423, AW302017, AA651639, AW029269, R70883, H63660, AI434037, AW020150, AI537368, AI521525, AI583291, AA714011, AI590404, AI479068, AI565126, AW166611, AI610737, AA405726, AA503298, AI242614, AI904840, T49933, H81406, AI537995, AI536858, AI130709, AA492105, H29914, AA613624, AA182731, AI457313, AI634187, AA808725, AW069227, AI887606, AI690497, AI627614, AA425924, AI554435, AA599423, AI289505, AA603413, R81167, AI915081, AW162750, AI690892, AA356376, AA568204, AA570740, AA600202, AA483606, AA574000, AI114494, AA578621, AA636077, AA469327, AA654482, AA719564, AI926102, AA479877, AA613616, AA565232, AL039309, AW089550, H67064, AA526339, AI792439, AW272640, AI469599, AA506734, AA299589, AA877992, AA564587, AA507291, AA740571, AA186905, AW105463, T50061, AI310992, AI300818, AA741403, AA158549, AW190484, AA878058, AA574009, AW188742, AA237098, AA610433, AA582746, AI285493, AI282623, AW270385, AI431513, AA661583, AI312090, AW023111, TS2772, AA341865, AW069537, AW151247, AI963856, AA484191, T03576, AA583386, AA603567, AW341882, H64099, AA631915, AI653776, AW029618, AA135761, AI923052, AA397821, AA701122, T41134, AC005274, AP000359, AL035420, AC002430, AC003692, AC007384, AC002400, AC004797, AC005081, AC007536, AC002375, AF053356, AL133163, AL049776, U15422, AF104455, AF030453, AF134726, AC003667, AC006480, AP000557, AC007686, AC007842, AL109758, AL096701, AC007227, AC007225,

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HTWCE72	6255	575962	1 - 258	15 - 272	AC005609.
HTWCF06	6256	935641	1 - 359	15 - 373	
HTWCF25	6257	924008	1 - 365	15 - 379	
HTWCF94	6258	747197	1 - 438	15 - 452	AC002394.
HTWCG45	6259	548176	1 - 469	15 - 483	AL047485, AI525707, AW277133, AA069701, AA557394, AI194689, AA574454, AW265297, AA195832, AA194667, AA195966, AA196489, AI800403, AW276795, AA225324, AA214115, AI224582, AA468474, AA476566, AI557286, AA225999, AI979036, AI811220, AI133661, AA211763, AI633184, AA469255, AA211596, AA192886, AA595622, AA657462, AA186825, AA194458, AI679588, AA470537, AA528310, AI801080, AA209532, AI719397, AA179143,

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HTWCG65	6260	869547	1 - 300	15 - 314	<p>U38997, AF072420, U63496, U13102, U63494, U13124, Z18645, Z18655, AF203774, AF061340, U13112, U63501, U63500, U63490, AF072428, U63504, U63489, U63502, AF072429, A89723, AF072430, Z18659, AF058292, U63498, U63510, U63491, AF072414, U63508, Z18661, and U63495.</p> <p>AI624279, AW080402, AI571861, AI684234, AI269862, AI917055, AW090071, AI284517, AI040243, AI318280, AW149227, AW148716, AI683475, AI567993, AW150578, AI560099, AI801325, AI500662, AL079963, AI045266, AW087445, AI275175, AI499381, AI308035, AI036361, AW151138, AI433976, AW059713, AW170635, AI364788, AI045500, AI433157, AI434223, AA508692, AI539771, AI636445, AI537677, AI500659, AI500523, AW274192, AI610362, AI612920, AI500706, AI91776, AI445237, AI572787, AW302988, AI564719, AI039086, AL039276, AI702433, AI783504, AW082113, AI044207, AI620284, AI637584, AI620287, AI590118, AI815855, AI345416, AI042551, AW071349, AI121328, AI433037, AW302973, AW268060, AI633493, AI289937, AI281773, AI049085, AI480118, AI499463, AI119748, AI312428, AW301409, AI613017, AI119791, AW301505, AI539153, AI590415, AI284509, AI349598, AI815232, AI249323, AW008048, AI036736, AI345612, AI538716, AA427700, AI559296, AI955917, AI862139, AW132056, AI308032, AI696612, AI274508, AI476046, AI873644, AI890833, AI926790, AI89376, AI036403, AI524671, AW051258, AI921248, AI873704, AI498579, AI619502, AI677796, AI802542, AI886753, AW026882, AI254042, AW071417, AI702073, AI273142, AI758437, AI036396, AI038605, AI800453, AI800433, AW088903, AI571551, AI554245, AI568870, AI224992, AI362637, AI036146, AW088793, AI699857, AW169653, AI801544, AI043981, AW074993, AA287231, AI440239, AW117882, AI679764, AW243820, AI282903, AI491852, AI816010, AW262565, AI872545, AI497733, AI624206, AI042628, AI919058, AI476109, AI110402, AI121270, AI468872, AI349645, AI521012, AI270707, AI348897, AI570989, AA225339, AI335426, AI348777, AI349004, AI284131, AW169671, AW131282, AI539808, AI923509, AI281772, AI950664, AW268220, AW103371, AI590120, AI682841, AI571909, AI632408, AI569583, AI064830, AI436456, AI499285, AI648684, AI567940, AI340582, AI134999, AW188382, AI036980, AI862144, AI621209, AW104724, AI612913, AW023590, AW132001, AI745713, AI866608, AI047763, AW075413, AW059837, AI863014, AW168795, AI702406, AI570384, AI274013, AI252813, AI857296, AI500146, AI453322, AI499512, AI859511, AW002342, AI119049, AI569616, AI824557, AI475451, AI872711, AI041150, AI591316, AI623396, AI439350, AI269205, AI349256, AI799199, AI554427, AI889133, AW082040, AI612885, AW102785, AW103893, AA974049, AI561299, AI038779, AI269696, AI648663, AI868831, AI888953, AI254251, AI886124, AW238730, AI038565, AW089572, AI281779, AI633419, AI627909, AI445165, AW183130, AI536685, AI866002, AI036274, AI922901, AI282326, AI828731, AI633125, AW162071, AI133080, I89947, E02349, A08913, AI049314, I48979, A08916, AF093117, I48978, AI137459, AI050108, AF113676, AF113690, AF118070, AI133075,</p>
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HTWCG69	6261	575950	1 - 298	15 - 312	
HTWC142	6262	713022	1 - 258	15 - 272	
HTWCK07	6263	953482	1 - 413	15 - 427	AF017104.
HTWCL29	6264	740327	1 - 67	15 - 81	
HTWCM36	6265	971129	1 - 758	15 - 772	AA215701, AA410338, AA406248, H47628, AA215700, and AA662185.
HTWCM56	6266	662321	1 - 549	15 - 563	AI760702, AF111105, U43186, AR008277, and AR008281.
HTWCN33	6267	577494	1 - 463	15 - 477	
HTWCN83	6268	573580	1 - 487	15 - 501	AC006502, and AL035692.
HTWCR25	6269	575959	1 - 324	15 - 338	AC008394.
HTWCS11	6270	967190	1 - 190	15 - 204	
HTWCT42	6271	713870	1 - 253	15 - 267	AL023096.
HTWCT61	6272	575975	1 - 447	15 - 461	AW027225, and AW027591.
HTWCX32	6273	669745	1 - 172	15 - 186	AA807061, and C01387.
HTWCY05	6274	920337	1 - 346	15 - 360	
HTWCY69	6275	869553	1 - 356	15 - 370	AL031595.
HTWDB72	6276	835624	1 - 445	15 - 459	
HTWDF82	6277	921697	1 - 411	15 - 425	
HTWDH14	6278	669560	1 - 541	15 - 555	AW239198.
HTWDH75	6279	767368	1 - 479	15 - 493	AA021481, AA001501, AA253163, and AW080520.

HTWDM43	6280	715352	1 - 413	15 - 427	AI240780.
HTWDN01	6281	916680	1 - 325	15 - 339	
HTWDN17	6282	664115	1 - 331	15 - 345	
HTWDQ60	6283	575939	1 - 92	15 - 106	
HTWDS35	6284	697825	1 - 393	15 - 407	AI633883, AI478126, AW002533, AC004815, and U88834.
HTWEA61	6285	965453	1 - 541	15 - 555	AL038664, AI051237, D82747, AI372493, AA302328, T48533, AW163010, AW275741, AW292131, AW149580, AW021288, AA148318, AA329440, AW270647, R12857, AA862706, AA342697, T27330, AA719848, T79010, AI026832, T69962, AA176086, AI676163, T69912, AA386145, H20652, T24661, AA337850, AA349447, AA595861, AA373966, AA355685, AW270806, N84238, AA199620, AA090164, D31885, AF223953, and AF172088.
HTWEC63	6286	735003	1 - 258	15 - 272	
HTWED17	6287	663714	1 - 377	15 - 391	
HTWED28	6288	686598	1 - 386	15 - 400	
HTWEG12	6289	970538	1 - 356	15 - 370	
HTWEH16	6290	661860	1 - 213	15 - 227	
HTWEJ14	6291	792648	1 - 451	15 - 465	
HTWEM37	6292	449136	1 - 472	15 - 486	Z99714.
HTWEM63	6293	745024	1 - 334	15 - 348	
HTWER78	6294	836799	1 - 460	15 - 474	AW364808, AI559215, AA923746, AA836012, AW327798, AI335646, AA724748, AA009478, AA452221, AA620709, R79719, and AA422169.
HTWES75	6295	767257	1 - 255	15 - 269	
HTWEU29	6296	711673	1 - 525	15 - 539	R53304, AW003115, R24971, Z45348, R06583, AA354539, R00344, F08048, AW175634, T89050, AA352746, H67220, AA344337, AA300562, T79104, AA315109, H51867, AW404159, AF069984, and AF069987.
HTWEX09	6297	625458	1 - 280	15 - 294	AC006389.
HTWEX18	6298	666305	1 - 488	15 - 502	
HTWEY30	6299	918641	1 - 704	15 - 718	AA059489, AW075945, W39013, AA040567, AI096342, AI268275, AA293329, AI200654, AI589359, H01352, AA505695, AI809808, AA873453, AA770600, AW005912, AI801978, AI698096, AA281486, AI703059, AI916594, AI703132, N90227, AW007805, AI459224, AI694044, AI744499, AI279707, AA827910, T58767, R32147, AI375599, AI630768, AI040897, AI697705, AA604916, W58385, AA487704, AW027528, R32148, AA406413, AI804406, AA625413, AI193139, AI377494, AI218362, AA410354, AA403249, HI3466, H26699, AA411298, AI393731, AI936297, AI366815, N34404, AI694262, AI189875, AW072309, AI420673, AI375598, AI245296, AA911276, AI301717, AI580797, AI348624, AA989442, AI342929, AA478946, AA468790, AA406322, T94659, AW015590, R82573, AI142053, AI245287, T94308, AI034416, AA856758, AI369708, R64474, AI298484, AI382919, R08179,



HTWFB37	6300	708908	1 - 150	15 - 164	AA968824, AI919216, AA045499, R66761, AA301164, N40439, AA862267, H12482, AW075870, AA909426, N26406, H01306, R65586, AA330943, AA988873, R32091, AI074686, AA700656, AW085943, AA281713, AI784080, AA969464, AI473229, N48474, R82516, D45627, AI632296, AI695369, AI494115, R65578, R64489, H13422, AA889103, AA171756, AA487490, AW166636, AA988552, AA909799, T47762, AA171994, D59192, AF036549, and AF036548.
HTWFB75	6301	767253	1 - 400	15 - 414	AL120304, AL042433, and AL119341.
HTWFR46	6302	869499	1 - 415	15 - 429	T12305, and AC004765.
HTWFG44	6303	935270	1 - 581	15 - 595	AI828449, AI300539, AI624022, AW076128, AA733063, AA161130, AI076905, AW271222, AW276047, AI687613, F25075, AW243801, AA570095, AI248876, AI123429, AA099709, N78559, AA612778, AI692287, AI272255, AI002324, C75244, AI758604, AI524505, and N73712.
HTWFI19	6304	668579	1 - 346	15 - 360	
HTWFK15	6305	869498	1 - 282	15 - 296	AL132992.
HTWFM20	6306	917272	1 - 522	15 - 536	AL031733.
HTWFN64	6307	757593	1 - 520	15 - 534	AA599080, Z82206, AC005015, D87675, AL133243, AL031432, AP000113, AC004882, Z98884, Z98946, AC005971, AC006530, AC007766, AF165926, AC005081, L78810, Z83826, AC002375, AC004447, AC000085, AL034548, AC005387, AL079342, AP000346, AC005089, AC006960, Z99716, AC004491, AF045555, Z98051, AL023553, AL121653, AC002126, AC000039, AP000045, AC002425, AC005736, AC007292, AL121769, AP000555, D84394, AL080242, AC006130, AP000511, AC004000, AC006538, AC006468, AC007546, AL135744, AL050332, AC005180, AC005874, AF134471, AC005793, U95740, Z95152, AC002470, AC005335, Z93930, AL050307, AL096763, AC005933, U91326, AP000088, AL022476, AC000026, AC005622, and AC002544.
HTWFO63	6308	658473	1 - 144	15 - 158	AA608873, and AA722048.
HTWFP14	6309	869489	1 - 356	15 - 370	
HTWFP33	6310	916562	1 - 670	15 - 684	
HTWFP53	6311	721768	1 - 391	15 - 405	
HTWFR17	6312	663697	1 - 380	15 - 394	AC008116.
HTWJA24	6313	954881	1 - 524	15 - 538	AA634223, and AA018611.
HTWJA59	6314	812705	1 - 266	15 - 280	AA579184, F36373, AI348731, AI049986, AW074398, AW075915, AA732212, AL040462, AI611902, AA579278, AL119259, AI284467, AA078483, AI205181, F28576, T69214, AA730362, AI569086, AW274197, AW265197, AI624528, AI753365, AW088049, AI079910, AW161495, AA484262, AI814820, AA595841, AI821044, AW161522, AW160880, AA747889, AL079645, AL042856, AA366035, AI053477, AW021917, AW264969, AI205126, AA641103, AW087946, AL040913, AA167741, AI925040, AL046746, AL041450, Z99394, AA504951, AA878140,

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HTWJA83	6315	780990	1 - 318	15 - 332	<p>F00717, D58893, AA129219, AI185580, AA548890, AL282793, AA843779, AA318189, F35649, AA501649, AI929746, AA514020, AI929738, AW162887, AA525508, AA984187, AI500453, AI049671, AI470431, AI524360, AI311684, AW401658, AA641122, AA586667, F17632, AA503119, AA468022, AI470437, AA714110, AA493110, H64265, AA581471, AW022897, AI634187, AI457313, F17142, AI610376, AI932600, AW084258, AW131249, AA527209, AI133164, AL045813, AI886008, AA668340, AI857836, AW080777, AW118304, AA846990, AI310780, AA314877, AI356440, AI344957, AA676971, AA321168, T07039, F25733, AA58372, T02965, AA745373, AW250905, AA149724, AI219169, N23896, W39141, AI720195, AW069227, AI216151, AA305154, AA613624, AW150561, AA136577, AA653240, AA558560, AW405054, AI806102, AI581193, AA297666, AI460009, R49657, AI086830, AI366464, AI817976, AW080440, AA455483, AI110595, AW130093, AA129563, AA577824, AW402817, AI669046, AW025074, AI223987, AA402129, AL134703, AW178018, AA574077, AW177870, AA101113, AA553363, AA707735, AA747305, AA580568, AI559564, AI859284, AA569183, AI681568, AI367473, AA228459, M78140, AA351753, AI431240, AA405453, AA908224, AA775173, AA180327, AA018823, AA489571, W26032, AL119921, AA179350, AL119158, T47084, AA972809, AC006953, AL121593, AC004552, M87921, AL033543, AL021391, AC004648, AL121652, AC004257, Z97205, AF152365, AE000658, Y07848, AP000504, AC000026, AL133233, AC002059, AC007040, AC006041, AL009183, AC008545, AP000010, AP000152, AC006037, Z98742, AL008633, AC004655, AC002331, AC004970, AC010722, AC004551, AC007785, AC008080, AL023879, AL021546, AF001552, AC005086, AL034548, AL024473, AC004962, AF135025, AC005568, AD000091, AC004517, AP000275, Z81364, AC005031, AP000105, AP000037, AC002530, AC007880, Z84466, AC004999, AC004520, AC020663, AL035070, AC002091, AL133448, AL021395, AR036572, U91328, L35485, AL121655, AC005486, AC004813, U91322, L09706, AP001137, AC005808, AP000502, AF019413, AC001231, AC004673, AC008273, AC003025, AF139813, AC004228, AR051479, AL031258, AC007707, AL033392, AC004834, AL0333517, AL031295, AC004140, AC006211, AL137430,</p>

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HTWJA95	6316	796259	1 - 278	15 - 292	AC007245.
HTWJC43	6317	715081	1 - 386	15 - 400	
HTWJC75	6318	767134	1 - 92	15 - 106	W52542, AA352300, AA492364, AA345395, AA523753, T40415, AA181184, AA664672, D53546, D53992, D54403, D54143, AA526619, D52804, AA180190, AA128647, AI301557, AA159647, AA603905, AW005462, AA528259, AW069480, AI309850, AA531360, AA533239, AW170190, AW188490, AW327933, AW327993, D54773, AA507186, AA847052, AI146888, AI081088, AW117656, AA327924, N99053, H88751, AI345372, AA532888, W32379, AA191222, AI560642, F27195, AI095409, AA804683, AI857391, AI676012, AA182619, N30675, AI300845, AI660588, R54410, AA081362, AI129527, AW023019, AA516100, AA528581, AA729056, AI205881, AA658829, AW328662, AW411459, AW276534, AA569578, AA484708, AA365665, AA809081, AI971289, AW245982, AA327606, D53168, AW238115, AW262461, AW238188, AW274800, AW238160, AW238174, AW438505, T59573, AI521361, AI658587, AA602702, AI199869, AA885968, AW084835, AW006070, AI266606, AW327994, AA176964, AW238047, AW262180, AA551487, AA167322, AW328642, AW328735, AW327769, and AC005291.
HTWJC85	6319	757125	1 - 321	15 - 335	
HTWJF59	6320	693116	1 - 348	15 - 362	AI141508.
HTWJF66	6321	576164	1 - 589	15 - 603	AC004534, and AC004889.
HTWJF95	6322	745182	1 - 431	15 - 445	AA525764, AW167154, AA507601, AI887235, AI815583, M62259, F24745, AI816537,

AI79798, AI627917, AA558366, AI421257, AI049630, AA279919, AI038304, AI243789, AI077941, AI049955, AA382181, AA343523, AI249688, AI127222, AA347203, AA084609, AA070614, N71033, AI915081, AA730530, AA502991, AI039257, AA557790, H05066, AI570067, AA218684, AW069769, AA084320, AI433131, AI249365, AI434477, AA648560, T47138, AI859280, AI079734, AA470933, R95751, AA985202, AW337805, AA573062, AA230025, AW188742, AA527633, N39388, AI891043, AI524022, AA468505, AA593537, AA491767, AW239465, AW439224, AW176639, AA669054, AA196994, AI679413, AA468371, AA689351, AA502532, AI754567, AI569100, AW192599, AI564582, AI031759, AA661583, AI598003, AA847341, AA171400, AA055647, AI919048, AI431513, H84412, AA493464, AW408073, AI755214, H86221, AA578832, AA587826, AI733523, AI268465, C05999, AA714110, AI918661, AI567676, AA640305, AA740571, R81017, AA741403, AI452836, AA102737, AI754105, AI962030, AW131356, H68343, AW303052, AI884404, AA678845, AA297498, R24038, AA605243, AI336771, AA493245, AA228368, AW337454, AA935457, AA748071, W96277, H71678, AI802087, AI080307, N99564, AW338376, AW129188, AA837035, AA593828, AI754653, AW021399, AA807704, AW020094, H85383, AI821055, N25079, AA679523, AI282253, F35097, AA586667, AI589942, W45306, F04710, AI174827, T15873, AA128511, AI890297, AA809546, AI801563, AI065031, AA630854, R22966, AW117860, AA367672, AA668727, N63149, AI601229, AA229422, H57752, AI984168, R89560, R97294, AI732474, AA524617, AA524907, AA297776, AA524666, AI791427, AI340151, AI732635, AA595661, AA729755, AI732128, F02399, AA587835, AA452325, AI049701, AA523719, Z96182, AC005102, AL096791, AC004962, AC006088, AC005808, AC006211, I34294, AC005911, AL049869, AP000952, AC008044, AC006064, S42653, U89337, AC005516, AC004854, AC004230, AC007193, AP000065, Z93930, AC005288, AL031311, AC002301, AL049795, AP000032, D86995, AP000343, AC006571, U95742, AC004841, AC006539, AL049829, AL080243, AC008078, Z83844, AC005089, AC004832, AC007216, AF196971, AP000115, AL109952, AP001052, AL049569, AL135744, Z96074, AC006077, AP000103, AP000555, AL109984, AC005015, AC004916, AC002312, AL035659, AL034421, AF001549, AP000359, AC004033, AL023575, M17262, AF124523, AC006948, AC007308, AP000089, AC007546, AC007686, AC000353, AC005666, Z97054, AF134726, AC007226, AC004148, AC007436, AC004477, AC004929, AL031295, AC002470, AL023553, AC008014, AL033392, D87675, AC005484, AF196969, AC007688, AC009247, Z93023, AL132777, AL031296, U52111, AC002347, AL031848, Z95113, AC002477, AC0010168, AP000047, AL031291, AL050307, AC006960, AF190465, AL031120, AL031281, AC003104, U91326, AC003042, AL139054, AP000305, AC005619, AC004999, AC002430, AC007384, AC007790, AP000113, AL109963, AL133246, AC005751, Z97056, AC005412, AP000252, AL020997, AC009516, Z82244, AC004797, AC005943, AC007371, AC006125, AC005291, AC006241, AP000212, AL035405, Z99716, AC004686, Y14768, AC007151, Z99943, AC006965, AC005940, L78833, AC004228,				
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HTWJH57	6323	812698	1 - 342	15 - 356	<p>AL035413, AL009051, AC003047, AP000031, AL035416, AF006752, AC004019, AC003025, AC004491, AP000134, AC005755, U80017, AC007842, AC007676, AC002432, AL031666, AC003109, AP000501, AL021546, AC005231, AP000347, Z83826, AC002310, AC005632, U95090, AL035249, AL034423, AF111168, AC005625, AC003663, AC006312, AC007382, AC006146, AC003688, AP000688, AL050318, AL049636, AL024508, AL121603, AF001548, AC006101, AP000704, AC007314, AC005620, Z46936, AC002492, AP000141, AL049631, AL121754, AF002223, AL049643, AC005180, AC005529, AC007227, AC006538, AC005067, AC005072, AL022721, AC005224, AP000687, AC005746, AP000502, AF111167, Z82203, AC007068, AL133445, AC000052, AC007421, AC006006, AL031255, AC005696, AC004655, AC005081, AC002425, AL133245, AC004770, Z83845, AL135960, AJ131016, AC002349, AL122020, AL049760, Z85994, AC007637, AC004966, AC007182, AC005037, AL096701, AF031078, AC005206, AC002997, AP001054, AP000505, AP000514, AC005225, AC009501, AC0022517, AL133371, AL034429, AL035681, AF030876, AC005229, AC007388, AC002996, AL022311, AC007385, AC006271, AC008115, AC005480, AB022785, AC006455, and AP000023.</p> <p>AI061313, AA551798, AW022796, AA743968, TG1477, AI636734, AA604831, AI271762, AI054418, AA598605, AI538236, AA573000, NS1140, H57752, AW002330, AA857812, R33091, AA228979, AA229823, F17537, AA402609, AW268322, AA828860, AW069227, AL041375, AI472736, AW341955, AA584765, AA077619, AI889579, AA626829, AI679759, AI886736, AI052776, AI188390, AI249365, AI082353, AW265279, AW265276, AI340700, AA084148, AL042735, AW339422, AW440568, AI354333, AI251944, AA342238, AA516025, R99533, F35684, AA515921, AI445373, AA430652, AI250552, AI251034, AI254770, AI284543, AI264579, AA678932, AI054090, AI133514, AI049630, AI634187, AI246061, AW081610, AW271917, AW265688, AA568204, AA570740, AA483606, AA302812, AI457313, AA480486, AA558404, AA469230, AA371410, AA302978, F17700, AA502825, T03928, F30251, AL120141, AA557982, AI189682, D51877, AW265359, AA715983, AA135988, AW237905, AI217131, AA715962, AA599080, AW242031, AI889995, AA483583, AI114733, AI133552, T94072, AI251284, AI251203, AW273201, AW273146, AI223626, AI249853, AI251241, AW340905, AA468494, AA581525, AL046519, AI049534, AW301483, Z98884, AL022316, AC004941, AL035086, AL009181, AC005046, AC005996, AL121603, AC005060, AL031120, AC004253, AC000353, AC005102, AP000502, AL031733, AC004895, X87344, AC005180, AL031290, Y10196, AL080243, AC005089, AC005828, AC005031, AF196969, AF001549, AC004922, U95740, U91326, AC002300, AC004757, AC002316, AC005264, AC002312, AC007546, AC005685, AC004859, AC005962, AL049569, AC002038, AL009031, AC002326, AC005730, Z75888, AC006960, AC020663, AL049776, AC004534, AC004769, AF064861, AC006211, AC001228, AC002550, AF017104, AC005544, AC006241, AC003029, AL033376, AP000279, AC006141, Z77852, AP000691, AC003684, AC004383, AC004887, AP000106, AP000038,</p>
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HTWJL91	6324	789487	1 - 533	15 - 547	N91175, AA608955, and AL918281.
HTWJM05	6325	850055	1 - 403	15 - 417	AA649642, AA652057, AA441788, AL653905, F25867, F16274, AW088058, AL352078, AA601892, AA493170, AA095511, AA947370, AA553465, AA371567, AW265253, AW236342, AA649705, AA125788, AL110770, AW341900, AL076616, AA195545, AA364429, AL284640, AL281881, H78195, AA578391, AW089322, AA347927, AA347930, AA845813, W95841, AA355281, AA847741, AA917683, AW406447, AA808928, F34510, AL281903, R13151, AL282336, AA632837, AA831375, AL344695, AA381858, AA229785, AA325699, AL246796, W79504, AL709365, AA713891, AA352803, AA634238, AA551552, AA179792, AA551201, AP000555, Y18000, AC005529, AL035458, AF017257, AC004638, AC011592, AF227510, AC005694, AP000141, AC004685, AC005901, AL121653, AC005015, AL035415, AC006480, AL022238, AC005209, AC003101, AC005940, AC010170, AC004854, AC002350, AC002300, AF111168, AL096701, AC008039, U95740, AC006040, AC006468, AC005081, AF130247, AC005899, AF130342, AC008055, Z82189, AC005295, AL049834, AL034402, D87675, AP000459, AL121652, AJ251973, AC004167, AL049835, AL109654, AL031666, AC008079,

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HTWJO45	6326	717592	1 - 179	15 - 193	AA904337.
HTWJQ19	6327	668466	1 - 329	15 - 343	AC005730.
HTWJY82	6328	698335	1 - 116	15 - 130	AC004815.
HTWKG30	6329	691882	1 - 125	15 - 139	
HTWKN53	6330	728014	1 - 256	15 - 270	AW162799, AW163173, AW163379, and AI003011.
HTWKT61	6331	709451	1 - 104	15 - 118	
HTWKX27	6332	574092	1 - 423	15 - 437	T95930, F16198, AW023111, AI870453, AA225406, AW272294, AI858889, AI635028, AA224593, AI567391, AA493947, AI923451, AI587467, AI192440, AI628859, AI860751, AA297011, AI572680, AW168103, AA077619, AI923458, AL120004, AI272649, AA938390, AA384890, AA558404, AA225938, AA722336, AA551056, AI439393, AA425924, AW105737, AA526643, AA320105, AA663074, AA612727, AA470578, N25564, AA904211, W81372, AA650447, AI358712, N36994, AI609972, AA487300, AI798407, AI421257, AA309634, AI792439, N95156, AA570441, F17537, AW162227, AI757731, H58891, C06142, AA598736, AC005037, AC005920, AL008635, AL035685, AC003687, Z98200, AL121652, AC006515, AC007676, AL035071, AC005531, AC007707, AL031311, AC006060, Z84469, AF128525, AL096763, Z86090, AL020997, AC005318, U91321, AC007993, U96629, AL049776, AC007688, AC007226, AL135783, AL031665, AC006020, AL109758, AC005488, AC006449, AC007225,



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HTWKZ04	6333	614980	1 - 430	15 - 444	
HTWKZ17	6334	529749	1 - 351	15 - 365	
HTWLD37	6335	841951	1 - 491	15 - 505	
HTWLG13	6336	656772	1 - 325	15 - 339	
HTWLG76	6337	795694	1 - 527	15 - 541	AL045209, AL138331, AL080135, and AC004810. AL126506, AL200037, AW024969, AW020616, AW450603, AI695490, N26904, AL217597, AI829099, AA568193, AA605122, AA743134, AI160533, AI128843, N25625, N24885, AI312534, AI802647, AA648514, AA729493, AI219599, AA806507, H86995, AA729125, AA568681, N36303, AI032141, N34223, AA768761, N35103, N26781, R73137, AW298649, N25653, AA543074, W52651, AW453038, AI674252, AW452862, AA988539, AA296449, N28403, AW074182, AI805445, AW236299, AI361669, AI299683, AI452444, AI039557, AI141901, R26304, N72137, AI984739, N34254, AA358828, AA653691, N20053, N39790, H86994, and W00385.

HTXAK52	6338	869460	1 - 251	15 - 265	
HTXAK78	6339	530137	1 - 335	15 - 349	
HTXAO23	6340	676386	1 - 119	15 - 133	
HTXBF75	6341	963029	1 - 312	15 - 326	AC008039.
HTXBH24	6342	418592	1 - 231	15 - 245	
HTXBJ36	6343	529759	1 - 219	15 - 233	
HTXBJ92	6344	706472	1 - 492	15 - 506	AA694368, AI076400, AI911488, and AL135744.
HTXBK75	6345	869401	1 - 159	15 - 173	AC004472.
HTXBN83	6346	781443	1 - 236	15 - 250	N28694, and AL049779.
HTXBO11	6347	967750	1 - 387	15 - 401	AC012627.
HTXBO21	6348	869461	1 - 320	15 - 334	Z77852.
HTXBO51	6349	970855	1 - 726	15 - 740	AA954908, AA234392, AA554743, AA232663, AA641221, and AW029502.
HTXBX49	6350	529662	1 - 225	15 - 239	
HTXBX77	6351	529661	1 - 341	15 - 355	
HTXCB32	6352	529615	1 - 431	15 - 445	AA134057, W60233, X81403, AF008203, and U96109.
HTXCL28	6353	952022	1 - 165	15 - 179	AC005730.
HTXCU76	6354	765655	1 - 576	15 - 590	AA213831, AC002472, and AC007664.
HTXCW16	6355	522365	1 - 253	15 - 267	AL021393.
HTXCW27	6356	491257	1 - 564	15 - 578	
HTXCX05	6357	932476	1 - 289	15 - 303	
HTXGY16	6358	537413	1 - 219	15 - 233	
HTXCY84	6359	924996	1 - 229	15 - 243	
HTXCZ16	6360	537485	1 - 439	15 - 453	N92159.
HTXDG37	6361	968886	1 - 552	15 - 566	AI693917, AW295593, AA831020, AW302412, AA976179, AA765705, AA731457, AA350911, AA810783, AA732410, AA928152, AW304453, AA906028, and AI695679.
HTXDI51	6362	537474	1 - 262	15 - 276	
HTXDO50	6363	537487	1 - 426	15 - 440	
HTXDQ25	6364	869369	1 - 365	15 - 379	
HTXDS80	6365	869435	1 - 70	15 - 84	
HTXDW14	6366	966588	1 - 1237	15 - 1251	AI829096, AA642981, AW152343, AW251072, AI871224, AW071985, AI978921, AI623713, AI762266, AI677795, AW117876, AI494363, AW009386, AI672747, AA458937, AA593002, AI660303, T57200, AA236101, AA653968, AA889703, AI633328, AI566555, AI568693, W49620, AI129215, AA725435, AW072937, AI424429, AI686112, AI659610, W48794, AA903402, AW407304, AA676879, AA027201, T55953, AI220314, AI538498, AA084808, AW009784, AA235819, H62064, AW083416, AW087223, AW068082, AA121077, AA084809, H45963, AI650521, AA027200, AA459151, H61158, AA399478, AA293409, AA454941, and AI918169.

HTXD61	6367	784768	1 - 411	15 - 425	AW403861, AW408474, and AL023755.
HTXD82	6368	931113	1 - 552	15 - 566	AC004895, AL096791, AC006023, AL049758, AC005837, AL031651, and AC004834.
HTXDZ01	6369	921486	1 - 301	15 - 315	
HTXEA41	6370	974530	1 - 408	15 - 422	T78301, and AL022328.
HTXEA62	6371	812833	1 - 372	15 - 386	AW405413, AA353813, and AA381548.
HTXEC53	6372	529755	1 - 500	15 - 514	AA176859.
HTXEE70	6373	537405	1 - 272	15 - 286	
HTXEM54	6374	764221	1 - 455	15 - 469	AI936768, AI356580, AI143875, AI445933, AI623391, AI091508, AI016436, AA843275, AI634953, AI097033, AI343882, AW383962, H59109, AI923443, AA430386, AI127186, AI343898, AI075102, N92435, AI950068, AW009389, H45798, AW162266, AA749379, AA421159, W52668, AA557505, AA397847, C05210, AA975241, AI420624, AA746044, N94429, N71146, N41774, AA680312, H72570, R81293, T81890, AI074236, AA405255, H65279, AA514243, AA448899, AA838218, AI815068, AW152092, AI160804, AA935040, AA284883, AI816986, AI380091, AA041377, AI024256, AA931271, AI278531, AI074208, AA287368, AA653509, AA873636, AA477128, AI367990, R89302, AI808213, AA825323, AA126677, AA464570, F35772, AI817348, AI744978, AA832261, AA612964, AA708347, AA659795, AI346987, AI720049, AW044578, AW172820, AA588835, AI635843, AA081185, AA477374, AI929800, AW071157, T50155, AA039332, F25719, AW003379, W74217, AI934851, AA436429, AA427865, AA806434, N32773, AA287506, AA429288, AA081295, W15647, AA085871, AA568565, AA129242, AA476577, AA489518, AI200308, AI364059, AA284614, R53178, AA954681, AW190970, AI241959, W30776, AA652668, AW328731, R82993, T83974, AA868075, AA385487, AA592907, AA464673, W52667, AA832337, AA129279, C05561, AW291918, AI459882, AA761016, AW301144, AA483524, AA678902, AI016411, W42678, AI383729, AA489517, T58548, AA368569, N70036, R89303, AA411549, AA041417, AI014648, AI279385, AW050747, R37644, R81187, R53087, AA039417, AW448949, N80829, H78214, H72970, AA127289, AI208609, AA386232, W44978, AI420322, W79938, AW089501, N41749, R24418, AI471390, AI219019, C01008, T51003, AI379130, AA291664, AJ011916, and AC003688.
HTXEP20	6375	537483	1 - 227	15 - 241	
HTXEP49	6376	722181	1 - 387	15 - 401	AA167183, AA481795, and AC005837.
HTXEP76	6377	527697	1 - 352	15 - 366	
HTXEQ05	6378	932471	1 - 223	15 - 237	
HTXET61	6379	537471	1 - 233	15 - 247	
HTXET67	6380	783784	1 - 275	15 - 289	
HTXET75	6381	664468	1 - 222	15 - 236	AC005630, and AC006328.
HTXEW14	6382	932437	1 - 206	15 - 220	

HTXFB03	6383	924995	1 - 304	15 - 318	
HTXFB78	6384	869408	1 - 272	15 - 286	
HTXFB95	6385	537399	1 - 320	15 - 334	
HTXFC07	6386	918644	1 - 594	15 - 608	AI241496.
HTXFD75	6387	537401	1 - 254	15 - 268	
HTXFE47	6388	790855	1 - 452	15 - 466	
HTXFF04	6389	615593	1 - 641	15 - 655	R99264.
HTXFF66	6390	973429	1 - 723	15 - 737	
HTXFF91	6391	780083	1 - 347	15 - 361	
HTXFI58	6392	557838	1 - 314	15 - 328	AW051648, AC002349, AC005040, AC006975, AC004131, AB020874, AC005243, AL109941, AL031393, AC006536, AC006062, AC002460, AF156545, AC006516, and AP000080.
HTXFK45	6393	523385	1 - 387	15 - 401	
HTXFN69	6394	869397	1 - 463	15 - 477	
HTXFO65	6395	926534	1 - 569	15 - 583	
HTXFS95	6396	796025	1 - 328	15 - 342	AA084950, AL036549, T03401, AA558426, AA526343, AA009855, AA192293, AL048376, H38817, AL469384, T07225, AA303598, AA226770, AA642809, AA640310, AA745373, W02437, R48980, AW087226, AC020663, AB026906, U91320, AC005197, AP000011, Z98052, AC002425, AC007731, AC005500, AP000510, AC008115, AP000268, AP000102, AP000033, AC005535, AB023048, AC007226, Z93020, AP000563, AL022721, AC002310, AC005971, Z99716, M33132, AC006001, AC004765, AL033392, AP000133, AP000211, L44140, AC005837, AP000466, AF050154, AL049780, AC006544, AL050321, AL080243, AC007055, AF111167, AC005399, AL009181, AL021939, AC003108, Z93017, AL031602, AC002350, Z98750, AL096703, AC002546, AC005944, Z93241, AC002544, AC006948, AD000092, AC005280, AJ003147, AC007276, AC003085, AC005763, AC006571, AC005932, AC005632, AC006121, AC002477, AC004686, Z83826, AL034451, AC003109, AC005519, AC005071, Z98200, AL035684, AL031311, AP000212, AP000134, AP000030, AF030876, AC005360, AL021546, AC007676, AC005529, AL023575, AL133371, AC006023, AP000345, AC006125, Z69707, AC009247, AL133445, AP000088, AF031075, AC002094, AC003983, AC005940, AC006539, X55448, AL109827, AC004910, U91326, AC007462, AC002395, AL031662, AC002400, AC007057, AB020861, AC005049, AL035587, AL023880, Z98941, AC005291, AC005262, AC016831, AL117694, U63721, AP000555, M15366, AL121748, AC004583, AC007686, AC007114, AC005764, AC005902, AC005225, AC009516, AC003950, AC005531, U78027, AC005527, AL021977, AL021918, Z69042, AC008041, AL050318, AL022323, AL035464, AC005015, AP000553, AC003962, AL035422, AC005772, AL031848, AC003043, AC015853, AC003025, AC004596, AL009179, AL096791, AC007919, U91318, AC007283, AP000269, AC005033, Z99943, AC008040, AC006449, AC003072, U91323, Z97181, AC004659, AC004024, AP000032,

HTXFT03	6397	924952	1 - 87	15 - 101	AP000103, AC007229, and AC006509.
HTXFT60	6398	923937	1 - 343	15 - 357	U61375.
HTXFTV22	6399	537491	1 - 331	15 - 345	AC005057, and AF045555.
HTXGB20	6400	933878	1 - 86	15 - 100	AL034375.
HTXGB65	6401	577711	1 - 650	15 - 664	AA084084.
HTXGD30	6402	529724	1 - 173	15 - 187	
HTXGL73	6403	529745	1 - 229	15 - 243	
HTXGN76	6404	527016	1 - 487	15 - 501	AI148063, AA252523, AA297161, F12840, T74733, AI765490, and AL050283.
HTXGO74	6405	869391	1 - 70	15 - 84	
HTXGQ37	6406	575461	1 - 308	15 - 322	
HTXHA16	6407	661818	1 - 421	15 - 435	AA362857, R82020, R82878, and AA229827.
HTXHD24	6408	727469	1 - 266	15 - 280	N40823, AA366086, W42954, R70423, AA252002, AA306794, AA524713, AW245923, AA210862, AA093155, AA281810, R52220, N35269, AA258914, W57948, and AW328480.
HTXJA66	6409	698461	1 - 391	15 - 405	Z99716.
HTXJB15	6410	660059	1 - 301	15 - 315	
HTXJB35	6411	707768	1 - 342	15 - 356	T48959.
HTXJC65	6412	666565	1 - 310	15 - 324	AI364902, and AA665393.
HTXJE76	6413	745813	1 - 305	15 - 319	AL133243.
HTXJF30	6414	692607	1 - 442	15 - 456	AA834596.
HTXJG06	6415	933230	1 - 516	15 - 530	Z84483, AL022151, and AC004456.
HTXJG19	6416	974010	1 - 355	15 - 369	
HTXJG23	6417	675315	1 - 521	15 - 535	
HTXJG53	6418	752160	1 - 1038	15 - 1052	AL134541, H41036, R33553, H42427, AW374362, AW374429, AW374421, AW374386, AW377436, AI743773, AW189062, AI743778, and D80002.
HTXJH73	6419	582143	1 - 357	15 - 371	T03401, AW340825, AI679753, and AI446158.
HTXJI68	6420	912611	1 - 541	15 - 555	AI929622, AW163374, N26287, AI698163, AI808675, AI499009, AW085191, AW025963, AI755143, AA781965, AI937942, AA778160, AI928943, AW157001, W84345, AW368475, AW275950, R99189, AW275930, AA906459, AI697616, AA905632, AI142546, AA703929, AA226492, AW157319, AA018804, AA084374, AA488608, AI879125, R99188, H80954, W84318, AA088835, H09853, T57108, AA221003, N39466, T11253, AW369153, AI738969, AW452770, AA045453, AA214461, AA149728, N36179, H80858, AL045542, AI470608, AA149794, N44167, AW069420, AA377776, AW237362, R78054, F00825, AA310214, AF112206, AF152463, AF203689, and M83680.
HTXJIS5	6421	959169	1 - 377	15 - 391	
HTXJK23	6422	675782	1 - 424	15 - 438	

HTXJL01	6423	916254	1 - 732	15 - 746	AA411753.
HTXJL02	6424	919691	1 - 469	15 - 483	AA436940, AI884861, W00387, AA488508, T56025, F35684, AA502125, AA857812, AA513219, AL031287, AL034562, AL031133, AL031729, AC007540, AB007960, AC005681, AF134726, AC005480, AL035072, AL132777, AC005740, Y10196, and Z82189.
HTXJM73	6425	783572	1 - 387	15 - 401	AC005562.
HTXJN04	6426	566887	1 - 1574	15 - 1588	AI278972, AI355007, AA613761, AW089589, AI476049, AA644090, AI254779, AA084609, AA833896, AA833875, AW302017, AA613624, AW007662, AI732720, AI061313, AA077737, AL047429, AW150226, AI249473, AF734119, T57767, AA077637, AW169038, AI049534, AI891070, AA487209, AL096712, AC005519, AC004000, AC005620, AF001549, AC006121, AI246003, AL122020, AC005377, AC004816, AC006064, AL080243, AC004797, AL133245, AC005231, Z85986, AC005225, AC004821, AC007226, AL031311, Z93241, AC005736, AL035420, AC006958, AC002303, U85195, AC007917, AP000503, AL031284, AC002378, AC003982, AL121658, AF111168, AF196779, AC005859, AE000658, AC005755, AC007376, AC005837, AL096791, AL020993, AL139054, AF053356, AC006480, AC004596, AC005921, AL020995, AC006312, AC003101, AC005863, AC006530, AC007999, AL035685, Z84469, AC005829, AC005261, Z86090, Z98036, AP000133, AP000211, AC005004, AC000026, AC004491, AC005300, AL117330, AP000553, AL050307, AC005057, U62293, AC002059, Z99716, AC005839, AP000555, AL031281, AL117337, Z94801, AF200465, AC007216, AC005102, AL035683, AC002369, AL035086, AC005488, AL109627, AC016025, AC006388, AC007845, AC007993, AC005399, AL031588, AC004799, AC008151, AL035659, Z93017, AC005206, AC004686, U95742, AC005514, AL031005, AC004876, Z95152, AC007686, AC004217, AC002350, AF196971, AC005971, U93305, AC006211, AC006124, AF111167, AC004106, AC004841, AC004659, AC005015, AF038458, AL117258, AC004584, Z97876, AF176815, AC002996, AC002470, AC004991, AC006071, AC006050, Z98051, AL022237, AL022320, AF205588, AL031186, AL049839, AC005529, AC004883, U62317, AC005037, AC007537, AC005632, AC007774, AL024498, AC000052, AC005667, AC006581, AC006080, AC005527, AC004084, AC006571, AC002425, AC006013, AC005920, AP000030, Z15025, AC004099, AL031774, AC005280, AC005670, Z84480, AF134726, AL109984, AC002477, AC004382, AC005081, U91321, U89335, AC002300, AB023049, AC005291, AC004598, AL022238, AC004805, AC004895, U96629, AP000694, Z85987, AF010238, AC005089, AL109801, Z97056, AP000201, AL035400, AP000513, AC004408, AC004851, AL121655, Z84466, AC002551, AC002312, AC005391, AL049757, AL132712, AL035079, AC004386, AC005379, AP001052, Z98941, AC012384, AC006515, AL121603, AF109907, AL135744, AC005031, AL050321, AF064861, AL031685, AL022315, AC009247, AC007030, AL031680, AC005778, AC002314, AC007536, AC004520, AL021154, AC005005, AC005821, AC007371, AC005581, AP000097, AL031683, AL031602, AC000353, AF047825, AC009516, AC006930, AP000117, AL049795, AL023553, AF190465, AL133448, AP000557, AL031651, AP000299,

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HTXJN68	6427	752940	1 - 362	15 - 376		AW401809.
HTXJO34	6428	703973	1 - 216	15 - 230		
HTXJO61	6429	663153	1 - 535	15 - 549		U73636.
HTXJO85	6430	869123	1 - 575	15 - 589		AA634244.
HTXJP28	6431	974315	1 - 601	15 - 615		AC002303.
HTXJQ73	6432	719077	1 - 539	15 - 553		
HTXJR67	6433	739586	1 - 168	15 - 182		
HTXJS64	6434	746481	1 - 589	15 - 603		
HTXJV49	6435	867083	1 - 852	15 - 866		AW005663, AW071763, AL589576, AL421189, AL073924, AL421482, AL417338, AL885651, AW129633, AW206726, AL374763, AL253156, AL138654, AL198796, AL278638, AL865555, AL201794, AW245078, AL675781, AL078333, AL283026, AA550952, AW005870, AW001162, AA782579, AL040632, H09745, AA223086, AW246209, AA931459, W73383, AL124006, D60111, AA602382, AL183736, AA256089, T79631, AL269764, W73444, AL284851, AL784306, AA911501, AW169802, AA865002, N92173, H09833, C14754, AA206562, AA830231, AL128560, T79716, AA137269, AW169019, and AC007637.
HTXJW56	6436	859854	1 - 466	15 - 480		
HTXJY51	6437	872233	1 - 259	15 - 273		AL031005.
HTXKB42	6438	841986	1 - 348	15 - 362		AL219169, F24728, AA714011, AL460009, AA484164, AA583394, AA584125, AA833896, AA608645, AA833875, AA084609, R60935, AL273847, AA228459, AL561210, M87890, AC004859, AP000251, AL031311, AP000212, AP000030, AP000134, AC005228, AC004383, S42652, Y18000, AL022313, AL022322, AC007216, AP000501, Z82203, AL035587, AC005089, AC005746, AC004150, AC005037, AL035683, AL020997, AC005694, AL021407, AC005529, AC002544, AC005207, AC005088, U52112, AL031295, AC004801, AC005081, AC005971, Z85996, AC004662, AL133163, AC009044, AC004817, AC005320, AL049569, AL020995, AC005015, AC006057, AC005913, AC004832, AC005837, AC004477, AC000029, AC002059, AL049836, AC004929, Z97353, AC005476, AC006449, AF030453, AL096791, AC008044, AL035530, AL080243, AL049776, AC002310, AC005914, AL049636, AC002364, AC004139, AL008726, AL049779, AC004263, AL031680, AC009721, Y12855, AL133245, AC006050, AC009516, AC005257, AC002425, AC007129, AC000120, Z93928, AC004659, AC004883, AC005484, AF038458, AL121653, AC004834, AL135744, Z98946, AC002543, AC007676, Z97196, AC005346, AL024507, AC005225, AC005190, AL034402, AL133353, AC006254, AC005324, AC007298, AL096701, Z86090, AL034420, AL031984, AL109984, AC006539, AP000299, AC002994, I59642, AC007435, AC004216, AC002519, AF196969, AC010582, AC005291, AC006441, AC016025, AC004000, AL121603, AC005696, Z95116, U78027, U52111, AC004805, AC007198, AC005668, AF031078, AC002076, AC005899, AC005839, AC004598,

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HTXKC23	6439	529756	1 - 229	15 - 243		
HTXKD62	6440	743435	1 - 272	15 - 286		AC004242.
HTXKH47	6441	720186	1 - 342	15 - 356		AL031774.
HTXKI93	6442	796245	1 - 251	15 - 265		W04224, AA134651, AL036175, AW249082, AW410595, AI929697, AW162954, AW161591, W26888, AA339543, W00383, AA219343, and F12127.
HTXKJ55	6443	671285	1 - 503	15 - 517		AA531436.
HTXKJ58	6444	574788	1 - 570	15 - 584		AB002344.
HTXKJ89	6445	767234	1 - 373	15 - 387		
HTXKJ95	6446	795788	1 - 338	15 - 352		H83011, AA973913, AI089968, AI088759, AW026427, AW071109, AA625565, AA334666, AL110391, AA984920, H81181, R09127, R13548, AI090576, AA528641, R96693, AA782301, AW188869, AI187148, AW438662, AI570019, AW438850, T86740, N92157, AA991990, T98482, AA714930, AW075881, AL118625, AA302690, AL038963, AA489860, AA833828, AW022934, AW021161, AA491438, AA654212, AL134009, AA350595, AL134586, H90688, AL336398, AA501781, T08205, AC007182, AF031076, AC004685, AL049795, AP000512, AL031774, AC004883, AF111167, AF031078, AL031905, AF030876, AL022316, AC000085, AC003109, AC006023, AL117258, AC005200, AL078596, AL008719, AL020997, AL031728, AF111168, AC005553, AL049538, L47334, AC005081, AC003982, AL035079, AC004832, Z75887, AC004987, AC007666, AC005803, AC006273, L44140, AL031283, AL078463, AC005067, AC007955, AL049832, AC004686, AC007425, AL109758, AC005102, AC002994, AC005071, AC005212, AC006241, AL031286, AL031729, AC002511, AC004216, AF111169, AL117354, AC004491, AC005288, AC004777, AF053356, Z94056, AC004382, AL035410, AC004522, AC005187, AC005409, AL121748, AC008372, AC005527, AC006509, AC016830, AC005332, AC005015, AL022238, AJ003147, AL022336, AC004662, AL031230, AC002375, AC000079, AC002551, AP000210, AP000132, AC006057, AC000059, Z93930, AC005529, AC007437, AL133382, AC005520, AC004983, Z97989, AP000249, AC000052, AC005944, AL109627, AP000336, AL079342, AL034419, AC003026, AC002287, AC004990, L78744, AL031673, AC002550, AC005585, AC005899, AB023050, AL096801, AC003665, and AL050348.
HTXKK62	6447	751050	1 - 423	15 - 437		AW339481, C04332, AA383551, and AC006449.
HTXKM25	6448	664886	1 - 335	15 - 349		AL119878.
HTXKM84	6449	782951	1 - 375	15 - 389		AL117354.



HTXKN90	6450	787551	1 - 316	15 - 330	
HTXKP42	6451	713631	1 - 646	15 - 660	H10896, R61720, H23341, and H29365.
HTXKQ25	6452	934801	1 - 574	15 - 588	H01126, and AB018275.
HTXKQ55	6453	947789	1 - 353	15 - 367	AW299519, and U80034.
HTXKS02	6454	919676	1 - 279	15 - 293	AC002096, AC007774, AL008718, AC005832, AP000093, AP000237, and AC004933.
HTXKU69	6455	754404	1 - 479	15 - 493	W47063, AI025911, AA401720, AA292887, and AL031295.
HTXKV16	6456	869348	1 - 490	15 - 504	Z98750.
HTXKV38	6457	918567	1 - 755	15 - 769	
HTXKZ89	6458	786409	1 - 291	15 - 305	
HTXLA63	6459	917316	1 - 422	15 - 436	
HTXLD06	6460	934555	1 - 936	15 - 950	Z99128.
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HTXLD68	6461	752484	1 - 356	15 - 370	<p>             I50132, I50128, I50133, A85396, AR066482, I19525, A44171, AR066488, AR016514, A85477, AR060138, A86792, A45456, A26615, AR052274, U87250, X93549, Y09669, A43192, A43190, AR038669, AR054175, AR066487, AR066490, A30438, I18367, I14842, D50010, Y17187, D88507, A63261, AR008277, AR008281, X64588, AR008408, I79511, AR062872, A70867, AR016691, AR016690, U46128, AF135125, D13509, A64136, A68321, AR060133, U87247, U79457, AF123263, AB033111, AR032065, AR060382, X93535, and AR008382.           </p> <p>             D51799, D59502, D80195, C14389, D80164, C15076, D80038, D59467, D59275, D80227, D81026, D80022, D58283, D80166, D80193, D59859, D59619, D80210, D80391, D80240, C14331, D59787, D51423, D81030, D80253, D80043, AW177440, AA305578, D80269, D80212, AW360811, D80196, D80188, D50979, D80219, AA514188, D80045, D59927, D57483, AA305409, D59610, D80378, D80366, D51022, D59889, D50995, D80024, T03269, D80248, AW375405, AW179328, AW178893, D80241, AA514186, C14429, D80522, D51060, D80251, C14014, D80133, AW366296, AW378532, AW377671, AW360844, AW375406, AW360817, AW378534, AW179332, AW377672, AW179023, AW178905, AW177501, AW177511, AW377676, AW178762, D80302, AW352170, AW352174, D51250, C75259, AW352171, AW177731, AW178775, AW178907, AW179019, AW177505, AW179024, D80268, D80132, AW352158, C05695, AW179020, AW360841, AW178909, AW177456, AW179329, D80134, AI910186, AW176467, AW178980, AW177733, AW378528, AW178906, AW178908, AW178754, AW179018, D58253, D80439, AW352117, D80247, D59695, AW367967, AW179004, AW179012, AW178914, AW378525, C06015, D52291, AW177728, AW177722, F13647, D80064, AW179009, D80949, AW178774, AW178911, AW378543, AW352163, D51103, D80168, T11417, D59503, C14227, AI905856, AW178983, D81111, D80157, D58246, T48593, AW178781, AW360834, C14298, C14407, D51759, AW378540, C14077, AW177723, AW352120, D59627, AW177508, AW378533, D80258, D51097, Z21582, D58101, AW367950, AA285331, AW177497, C14975, D45260, D59317, AW178986, AW177734, H67866, AI525923, H67854, T03116, C03092, AA809122, D80014, AI557751, D51213, D45273, AI535686, D59551, AI525917, C14973, AI525920, C14344, D51221, D59474, D60010, D60214, AA514184, AW378542, AI525227, T03048, AW378539, C14046, AI525928, AI557774, AI525235, AI525925, AI525242, AW360855, T02868, AI525215, D59976, AI525912, AI535850, C16955, C05763, Z33452, T02974, AI525237, H67858, AC004466, A84916, AJ132110, A62300, A62298, AB028859, AR018138, AR008278, AF058696, D26022, A25909, Y17188, Y12724, A67220, D89785, A78862, D34614, X67155, A82595, D88547, AR060385, A94995, X82626, AB002449, AR008443, I82448, AR016808, I50126, I50132, I50133, AR025207, AR016514, AR060138, A45456, A26615, AR052274, AR066488, AR066490, A43192, A43190, AR038669, I18367, Y09669, AR066487, A30438, AB012117, I14842, D50010, Y17187, A63261, X68127, A70867, AR054175, AR008408, AR062872, A85396, D88507, AR066482, A44171, A85477, I19525, A86792, AR008277, AR008281, A64136, A68321, X93549, AR016691, AR016690,           </p>
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HTXLE37	6462	790392	1 - 293	15 - 307	U46128, D13509, AR060133, I79511, AR032065, U79457, AF123263, AJ000347, and AR008382.
HTXLE56	6463	861983	1 - 603	15 - 617	AA593263.
HTXLE75	6464	766798	1 - 657	15 - 671	AC002073.
HTXLE79	6465	774125	1 - 418	15 - 432	AI949292.
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HTXLF08	6466	958421	1 - 423	15 - 437	AI204494, AI653977, and AC002073.
HTXLG57	6467	790610	1 - 450	15 - 464	
HTXLG64	6468	974598	1 - 655	15 - 669	
HTXLH60	6469	869336	1 - 409	15 - 423	
HTXLI65	6470	974018	1 - 444	15 - 458	
HTXLI91	6471	787577	1 - 405	15 - 419	
HTXLJ70	6472	756679	1 - 618	15 - 632	AP000355.
HTXLK35	6473	840283	1 - 457	15 - 471	AA633787, AA737678, AA764873, N31505, AI051943, and AI310706.

HTXLLK95	6474	795355	1 - 313	15 - 327	AI002744, AA601125, AA502991, AL133909, AI832009, AW069819, N23504, AA630672, AL046549, AA631507, AI038149, R49657, AI907530, AA812139, AC004787, AC005031, AC005670, AC005295, AC003969, AC007055, AC007878, AC004140, AC005901, AL049780, AC006449, AL049539, AL023281, AC004477, U80017, AL034451, AC004237, AC004799, AP000049, AP000193, AP000311, AP000117, Z74618, AC004517, AC004655, AC007199, AL022322, AC005747, AC002301, AC005277, AC002553, AL049699, AC004609, Z83846, AC007845, AC007226, AP000251, AP000030, AP000134, AP000212, AC006142, AC004456, AL035587, AL031311, AL033525, AL080243, AC005057, AC006530, AL009031, AC002326, AL031681, AC004051, AC002045, and AC004966.
HTXLL78	6475	773071	1 - 445	15 - 459	AA812542, R48980, AA358258, R64617, T96238, T90484, AI821396, AA689351, AA706160, AA515924, AA910783, AW188791, AL046519, AI821390, AA740879, AI280574, T52786, AI343169, H38769, T90477, AA573693, AA601653, T56025, T58448, AA588611, AL041375, AA826033, T59605, AC005005, AC002994, AC006950, AC002331, AL078462, AP000497, AC006130, AC004448, AC005924, AL049708, AL109980, AL109854, Z92546, AC005355, AL050321, AC004079, AC006148, AC005484, AC003029, AL118523, AC006368, AC006287, AC005832, Z85996, AL031774, AC005800, AP000353, AC005686, L14561, AP000048, Z98051, AC002464, AL031281, AL049759, AC004838, AC004990, AL117337, AF205588, AC003013, Z84718, AF130351, AC002073, AF019967, AF191069, AF096876, Z68192, U73166, AC005765, AC004938, AC006468, AC005383, Z97056, AL132712, AL020997, AC004081, AC002543, AC004129, AC005747, AF001550, AC005237, AL049869, AC006443, AL035687, AC005266, AC008179, AC009516, AC005346, AL035407, AC003982, AC009399, AF111168, AC002385, AC004223, AC006511, AC004241, AL034402, AC005954, Z83840, AL079340, AL034561, U29895, AP000298, AP001059, AF039907, Z97630, AC004650, AC005694, AP000089, AP000141, AP000112, AP000044, AP000692, AL031293, AC004668, AC004955, Y18000, AC003663, AP000351, AP001052, AL031311, Z95152, AC005874, and AF134471.
HTXLL89	6476	786475	1 - 436	15 - 450	AI561060, AW070892, AA478355, H53984, AI306191, AI305894, F00107, AA483929, N86538, AW022065, AL135377, AA018823, AA774059, AI252176, AI382825, AA478866, AI124610, AA493975, AL120897, AA508359, AI088768, AI754253, AA654781, H18914, Z22960, AL12135, AW148507, AW022406, AA478867, AA493894, AA987843, AI254192, AA012964, AW103758, F05324, H29443, AA620983, T06754, T25806, AL044185, AA846876, AW327868, AA551552, AI873852, AL119649, AL036413, F01045, AA069445, AA832444, Z82250, AL031287, AC005101, AL023553, U66059, AC004686, AC008014, AF217403, AC000082, AP000690, AC004815, Z98941, AL031846, AB023049, AC000373, AL035417, AC000355, AC005943, AC005048, AC003081, AL022336, AC005043, AC000088, AC004069, AL050318, AC006449, X03340, AC008122, AL034429, AL050350, AC006501, U93305, AC004655, Z82206, AL079342, AF196779, AL109798, L13176, AL049539, AL096791, AL031311, AC005908, AC002072, AC009225, AC007227, AC002310, AC005682, AC000394, AC006046, Z82244,

HTXLN72 HTXLO02	6477	951958	1 - 256	15 - 270	Z93244, AL034374, AL035045, AC008044, AC006346, AL022718, AC005880, AC007676, Z83844, AC004687, AC005772, U47924, AJ006996, AP000390, AL078614, AC006479, AC007225, AC006371, Z82245, Z81314, AL049748, Z94056, Z97989, AL133238, AL109759, U65416, AB000878, AC002985, AC000026, AL049709, AL035555, AC004103, AC009501, AC007546, Z97055, AC006443, AP000223, AF181897, AP000086, AC006004, AL034553, AL049760, AL050307, AL035691, AC004990, AP000506, AF141309, M63543, M63480, M63544, AL080245, AP000359, AL121757, AC007172, AC006040, AC005386, AP000512, AC004992, AC005102, AC004460, AF200465, AC006480, AL136504, AC002480, AF111167, AC005859, AB000882, AL022323, AC005146, Z69917, AC004097, AL021878, and AL031281.
	6478	918658	1 - 505	15 - 519	AL050318. N58534, N78125, AL1215964, AL147574, AA9943388, AA308806, AL284640, AW338869, AW074398, AL181735, AA515435, H64777, AW410400, N59638, F19258, AA610491, AA228329, AL110770, AW193265, AL471481, AL446464, AA340003, AA747472, AA229785, AL064864, AW339568, AA580662, AA683031, AA584749, AL205126, AA535661, AL053672, F36273, AW269488, AL963720, AA362700, AL34443, AL742771, AA318652, AL138265, AL349874, AL792108, F35113, AL1610159, AL962050, AL937850, F31204, AA133986, AA558697, AL003172, AL917271, AL914706, AA551509, AA916039, N43757, AL015912, AL041706, AL287964, N71724, AA450199, AA831388, AW193432, AA515128, AF177861, AL669453, AW419262, AL921649, AL340453, AL376100, AW074207, AA828851, AA361344, F29989, AL624698, AA593060, AA365347, AW074059, AL356904, AL922654, AL564284, AL570138, AA366035, AL038785, AA715606, F37286, AA713815, AA164960, AA631507, AL350211, AA743956, AW029038, F25203, AA633936, AA714595, AL358229, AL061334, AL282907, AL339440, AA569187, AW406755, AL047643, AA077817, AL365988, AA733208, AL041368, AA747480, AL677758, AA838479, AL341664, W60516, AW339687, AL613280, AW188544, AW190289, AL635272, AL499181, AA838477, AL688846, AA359958, AL040547, H60216, AL339850, AL554289, AA745410, H60544, AL040130, AL561060, AL037914, AL287528, AL679379, N23874, AA658235, AL358343, AW103415, AL679888, AA350859, AL744739, AL431303, AL246340, AL469166, AL499094, AL929531, AW069807, AW069427, AL079935, AL830390, N73083, AA584458, AL079812, AW276827, AA559290, AA747276, AL613261, AL046409, AA682189, AL709365, AW166815, N26061, AW162049, AL879000, AL355224, AL133164, R93081, AA557879, H92005, AA292574, AA095511, AL557323, AL955323, AA904218, AW088058, AL357551, AA491814, AW264973, AL371070, AC006116, AC007676, AC007228, AC003081, AC000378, AC000353, AF176915, AC008062, AC009044, AC005294, AC007182, AC006213, AC002067, AL022721, AL121655, AL023284, AP000555, M87918, AC004987, AC007628, AL031681, AC006130, AL109807, AC007051, AC006948, AC007919, AC007842, AL031662, Z84719, AC005696, AB020859, Z98946, AC006582, AL021453, AC005182, Z94721, AC007245, AL133396, AL035086, AC004184, Z84475, AL031256,

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HTXLO14	6479	869332	1 - 346	15 - 360	
HTXLP15	6480	869202	1 - 580	15 - 594	AI207023, AI056259, F25099, AL034420, AF001551, AC006141, AC003958, AC004836, AC005069, AF001550, AC005696, AP000310, AL031584, AC008273, AC005081, AC002369, AC007381, AP000116, AL132826, AC005284, AC005695, AL035410, Z99291, AC005015, AL049631, AC005046, AC003957, AC002544, AC006515, AC002350, AC008038, Z85996, and AC005943.
HTXLP18	6481	973431	1 - 1120	15 - 1134	
HTXLQ28	6482	869331	1 - 253	15 - 267	
HTXL133	6483	919761	1 - 249	15 - 263	
HTXLU64	6484	783411	1 - 274	15 - 288	
HTXLU82	6485	779215	1 - 352	15 - 366	

HTXCLV39	6486	972762	1 - 587	15 - 601	AW024320.
HTXLY02	6487	866819	1 - 437	15 - 451	
HTXMC82	6488	779198	1 - 513	15 - 527	
HTXMH13	6489	928105	1 - 468	15 - 482	
HTXMH80	6490	775487	1 - 789	15 - 803	AI767654, AI654951, AI654511, AC003037, AR060648, Y15164, and Y16355.
HTXMI18	6491	921101	1 - 558	15 - 572	AA354168, AL021920, AC006359, Z63341, Z56778, Z63773, and Z61872.
HTXMI62	6492	870456	1 - 610	15 - 624	AW204494, AI167739, AI308750, AW079517, AA810700, AI304463, AI348049, AA781353, AA740190, AI245908, AA448390, AI073753, AI346019, AI240109, AA579960, AI146972, AA194605, AI924255, AI245270, AI160024, AA782917, AI198405, AA804861, AI498033, AI244610, AI018032, W84699, AI088909, AA150413, AW195727, AA150136, AW207349, AI350465, AA773774, AA448387, AA908581, AW182756, AI023582, AA772649, AI698603, AA740373, AI245510, AI004632, AI198724, AI566264, AA477201, AA291758, AA305875, AA477036, W79002, AA768998, AA194636, AA353431, AI459372, F34275, AA781769, AA401771, W63647, AA479797, H69491, AA026446, AA148813, AA152187, AW074444, AA148463, and AA026249.
HTXMIJ03	6493	923001	1 - 338	15 - 352	AA278496, AA427747, AI625778, AL118567, AW419161, AA503454, AI251429, AA372881, AA527396, AA354311, AA504951, AI271985, AI631064, AC002531, AC000353, AC004765, AC002375, AL035688, U41384, AP000303, AP000114, AP000046, AL109657, AP000359, AL031296, AC005701, AP000275, AI031284, AL031670, AL021391, AC005695, AC007676, AC005215, AC004895, M19364, AC005193, AC004880, AC007690, AC006023, AL035681, AC007510, AL117338, AC005781, AC004600, AC007129, AP000037, AP000105, U75931, X55448, AP000210, AP000132, AL035659, Z95329, AP000248, AB026899, AC006251, AC005839, AC007993, and AP000326.
HTXMIJ50	6494	830027	1 - 395	15 - 409	H93883, AF140360, and AF074606.
HTXMO28	6495	823172	1 - 464	15 - 478	AA504938, AF115510, and AF045573.
HTXMO81	6496	869319	1 - 770	15 - 784	T10293, Z98044, AC004463, and AC002040.
HTXMP92	6497	972759	1 - 558	15 - 572	
HTXMQ07	6498	952206	1 - 564	15 - 578	AC006449, AL049761, AC004491, Z97054, AL133163, Z93023, AL121658, AJ246003, AL139054, AL035072, AJ229041, Z83822, AL080243, AL031255, AC006511, AC004150, and AC002316.
HTXMT06	6499	933376	1 - 594	15 - 608	AA836811, AL047602, AI561043, AL132777, AC005180, AL024507, AC003070, AC005225, AC005257, AL078581, AL133245, AC004967, AL109963, AC005736, AC005778, AL009172, AC005206, AC005015, AL118497, AC006121, AL021707, AC005667, AC006088, AC005765, AC005747, AC006360, AC004996, AC004876, AC004953, AL049830, AC004985, AC005696, AC002477, AC002565, AF196779, AC005089, AP000251, AC007283, AL035249, AP000030, AC000111, AC006160, AL096701, AL022326, AL021808, AC004263, AL031311, AL117258,

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HTXMIU10	6500	961472	1 - 297	15 - 311	AA360680.
HTXMX03	6501	923005	1 - 801	15 - 815	H69312.
HTXMX32	6502	789063	1 - 414	15 - 428	
HTXMX41	6503	789332	1 - 658	15 - 672	AI143899, AI185700, and AA935389.
HTXMY15	6504	780129	1 - 487	15 - 501	AC006369.
HTXMY23	6505	835044	1 - 1094	15 - 1108	
HTXMZ91	6506	789619	1 - 355	15 - 369	
HTXND08	6507	869311	1 - 605	15 - 619	AA612727, AF017104, AC016831, AC005940, AC006441, AC005071, AC005277, AC005921, U82828, Z93023, AC007868, AC005781, AC004854, AL133353, AC002395, AC005829, AC003091, AP000501, AF134726, AC007899, AC004686, AC004009, AB023048, AC005067, AC005379, AC005288, AC005920, AL022166, AC002394, AC004967, AC007011, AF165926, AC000035, AC006023, AC002316, AC002072, AL031295, AC003006, Y10196, AC003043, AL109623, Z84466, AC004383, AC010200, Z98941, AC004605, AC006121, AC004812, AL049759, AC005332, AC002091, AL031133, AC002300, AL035086, AC004584, Z69890, AC008498, AC006285, AL008718, AP000263, AC004000, Z82214, and AC002563.
HTXND91	6508	789706	1 - 634	15 - 648	
HTXNF56	6509	974048	1 - 359	15 - 373	



HTXNJ80	6510	966045	1 - 269	15 - 283	
HTXNM82	6511	973993	1 - 354	15 - 368	
HTXNN03	6512	922997	1 - 500	15 - 514	AC007151, and AC005071.
HTXNN33	6513	780965	1 - 1099	15 - 1113	AA687306, AA262231, and H59981.
HTXNO48	6514	963444	1 - 242	15 - 256	AC004001.
HTXNO58	6515	916249	1 - 447	15 - 461	
HTXNQ06	6516	934303	1 - 424	15 - 438	<p>AI017099, AA115566, AI679782, AA368329, W80696, AA159006, AI940546, AA524800, AA133013, AI733856, AI821659, AI281622, U46402, AW023975, AW161459, AW268329, AW161879, AI191343, AI003797, AA936548, AA339592, AW029626, AI888050, AI018726, AI982994, AI114645, AI475294, AA827383, AW169390, AW157173, AA533923, AA533660, AI520925, AW265688, AA559166, AI686563, AA313078, AI749306, AA809131, AA832235, AI043707, H59856, AA084320, AW129188, R31264, AA099907, R66407, AA218684, AC002126, AC005620, Z82182, AC006162, AP000555, AC005565, AC006026, AC004263, AF064857, AC006001, AL133353, AC006006, AC007225, AC004081, AC005988, AL049709, AC005759, AL035086, Z95116, AL078581, AC007216, D86995, AC005703, AC005295, AC004832, AC010205, AC005005, AC005409, AC006130, AC000353, AC005288, AC000003, Z83844, AC006312, AL009179, AL022315, AC006084, AC004820, AC004671, AC005839, AL035420, AC005355, Z98051, AC005821, AC004638, AC002310, AC004821, U95742, AC006538, AP000091, AC005377, AL034548, AP000692, AF003626, AC005089, AP000503, AC007114, AL034549, AC006430, AL031277, AL031427, AC004812, AC002369, AF107257, AB004907, AC004834, AC007686, AC007917, AC005940, AP000236, AC005544, AC005480, AC005913, AC004150, AF031078, AP000045, Z98946, AC004922, AL022395, AL049843, Z82097, AF030876, AF196969, Z97352, AC004382, AP000030, AP000212, AP000134, AL132826, AC007066, AC002077, AF031076, U85195, AP000346, Z99128, AL049569, AC005412, AE000658, AL035658, AB003151, AP000688, AL022324, AC005003, AC003982, AC005086, Z84486, AC007201, AC006322, AC000065, AF111168, AL021154, AL121652, AC005592, AC002350, AL031447, U91323, AL035072, AC002381, AC005332, AP000337, AC005800, AL008635, AC006241, AC004230, AF118808, AC004000, AC005102, AL034429, AC005017, AL035249, AF134726, AP000502, AC007731, AF111169, AC004034, AC005500, AC005484, AC005803, AL050318, AC004953, AC005911, AC002558, AL035450, AL008718, AC002115, AL109963, AL049761, AL096774, AC002430, AC005519, AL096712, AL024507, AL008719, AC002554, AC016831, AC004125, AC007363, AF045555, AC002425, AC007384, AC002378, AP000355, AC003037, AL133312, L44140, AC004009, U78027, AL110502, AC006271, AL031311, AP000359, AC000026, AC002040, AC005581, AL022311, AC004816, AC004231, Z83820, AC004019, AC004491, AC002472, L81868, AL078638, AL133163, AC005048, AC005206, AC003669, AC004938, AC004106, AC004890, AC002404, AL035422, AC007263, AC006948, AC004084, AC003029, AC002059, AC005920, AC008041, AP000010,</p>

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HTXNQ63	6517	951939	1 - 216	15 - 230		
HTXNR01	6518	913781	1 - 542	15 - 556		AC005585, and AC004997.
HTXNR17	6519	856465	1 - 1217	15 - 1231		AL109616, AP000085, and AP000222.
HTXNT07	6520	952165	1 - 850	15 - 864		AI168689, AA447759, N24906, H80735, N36031, and AI088950.
HTXNT43	6521	869398	1 - 696	15 - 710		AW104380.
HTXNT76	6522	869189	1 - 720	15 - 734		AI140432, R67196, H09197, Z44614, and W86042.
HTXNU51	6523	972837	1 - 607	15 - 621		T11417, AW178893, D80195, D80193, AW17440, C06015, AW360817, D80022, AA514184, AW178907, AW178908, D80164, D59502, AW352170, D80439, AA305409, AW366296, D59619, D80210, D80391, D80240, D59787, D80227, D59467, D80247, C03092, AW377676, C14331, AA305578, D45260, D59275, D80038, AW377672, AW178905, AW177731, C14389, AW378528, AW378533, AA809122, AW378532, AA285331, AW360811, D80166, AW375406, AW179328, D80251, D58283, D59859, D59927, D51423, D51799, D80253, D80043, AW179023, AW378534, AW179019, AW179332, AW378542, AW178762, T48593, AW178911, F13647, AW178906, T03269, AW367950, AW178914, AI557774, AI525920, AI525227, I14842, I50126, I50132, I50128, I50133, AB002449, A62300, A82595, AR060385, D89785, A84916, AB028859, AJ132110, D34614, AR062872, A62298, AR018138, AR008278, AF058696, AR066488, AR016514, Y09669, A70867, AR066487, Y17187, AR060138, A45456, A67220, Y17188, A78862, A94995, D26022, A30438, A26615, AR052274, A43192, X67155, A63261, A43190, AR038669, A25909, Y12724, A64136, A68321, AR054175, X68127, AR008443, AR008408, AR016691, AR016690, and U46128.
HTXNY70	6524	869289	1 - 503	15 - 517		AA326098.
HTXNY74	6525	918076	1 - 523	15 - 537		AI990442, AI760050, W17255, AI743197, AA161408, AA046819, AA100199, AI937600, W17197, AW134967, AA365733, AI878952, AW407024, F11958, AI440483, AW404641, T65652, AW408221, AW247376, AA101041, AL134478, AI420513, AA418264, AA993567, AA446731, N78836, R08951, H53247, AF078856, Y10769, AB002086, and AF112211.
HTXOC32	6526	869280	1 - 627	15 - 641		
HTXOD62	6527	806643	1 - 920	15 - 934		AW160365, D83782, and U67060.
HTXOG84	6528	929289	1 - 493	15 - 507		AW405057, AI950337, and AC002303.
HTXOH04	6529	926909	1 - 358	15 - 372		
HTXOH60	6530	869271	1 - 524	15 - 538		
HTXOJ50	6531	869279	1 - 696	15 - 710		AA640727, and AA569750.

HTXOI92	6532	974039	1 - 477	15 - 491	AW409822.
HTXOM10	6533	963435	1 - 414	15 - 428	AW367431.
HTXOO06	6534	934248	1 - 633	15 - 647	AI033221, T67234, and AI247472.
HTXOO83	6535	898860	1 - 546	15 - 560	
HTXOR11	6536	965090	1 - 493	15 - 507	
HTXOR48	6537	869253	1 - 649	15 - 663	AA114199.
HTXOR86	6538	914739	1 - 599	15 - 613	
HTXOS47	6539	965558	1 - 757	15 - 771	AA424143, AI702720, AI039624, and AA424185.
HTXOT42	6540	974034	1 - 421	15 - 435	
HTXOU06	6541	852057	1 - 535	15 - 549	
HTXOU48	6542	869252	1 - 409	15 - 423	AI022398.
HTXOU67	6543	906909	1 - 406	15 - 420	
HTXOX02	6544	918556	1 - 600	15 - 614	AP000694.
HTXOX42	6545	920274	1 - 540	15 - 554	
HTXOZ02	6546	918566	1 - 446	15 - 460	AA348747.
HTXPF93	6547	954976	1 - 621	15 - 635	D80253, D58283, D80366, D80043, D80188, D80022, D59275, C14331, D80391, D59787, C14389, D80195, D80196, D59619, D80210, D80166, D80240, D59859, D80164, D81030, D59502, D59467, D51423, D51799, D80227, D80212, D50995, D80219, C15076, D59927, AA305409, D57483, D59889, D80269, D80038, D80193, D50979, D80024, C14429, D59610, D80378, D80251, D80045, D51022, D51060, D80241, AA305578, AW177440, D81026, T03269, C14014, AW178893, D80248, AW179328, AA514188, D80522, C75259, AW360811, AA514186, D80133, AW378532, D80247, D80134, D80132, AW178775, F13647, AW369651, AW178762, AW375405, C05695, AW177501, AW177511, AW377671, D51250, D80168, D58253, D80268, AW366296, AW360844, D80439, AW360817, AW375406, AW352158, AW378534, AW179332, AW371672, AW179023, AW178905, D59695, D80949, AW177505, C14227, AW352117, AW176467, D80302, AW352170, A910186, D80064, D81111, AW352171, D51079, AW377676, AW178906, AW177731, D59373, AW178907, AW179019, AW179024, C14298, C14407, AW177728, AW360834, AI905856, AW360841, AW179020, AW378540, AW178909, AW177456, T11417, AW179329, AW178980, AW178774, AW177733, AW378528, AW178908, AW178754, AW378543, AW179018, D51103, D80157, AW352174, Z21582, AW179004, AW179012, D51759, AW178914, AW178781, AW378525, AW367967, C14077, AW177722, AW179009, AW352120, T48593, AW178911, AW352163, AW178983, D58246, C06015, AA285331, D59653, D51097, D59503, AI557751, D58101, AA809122, C03092, D45260, H67866, D59627, AW177723, D51213, AW367950, D80258, H67854, AI535850, AW378533, AI525923, D80014, AW178986, C14344, T03116, AW177508, D45273, AI525917, D59317, D60010, C14973, D51221, AW177497, AI535686, D59474, D51231, AI525920, C14957, AW177734,

HTXPJ03	6548	922877	1 - 474	15 - 488	AA514184, C14046, D59551, D60214, A1525227, C16955, A1557774, A1525235, T03048, A1525912, A1525215, Z33452, A1525242, T02974, AW378542, A1525925, H67858, AW378539, A1535961, C05763, A1525222, A1525237, D51053, AW360855, C04682, C13958, AC008149, A62300, A84916, A62298, AJ132110, AR018138, AF058696, AR008278, X67155, AB028859, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, D88547, Y12724, X82626, A82595, AB002449, A94995, AR025207, AR060385, AR008443, I50126, I50132, I50128, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AB012117, Y09669, A43192, A43190, AR038669, X68127, AR066487, AR054175, A30438, I14842, A85396, AR066482, AR066490, A44171, A85477, D50010, I19525, Y17187, A86792, I18367, U87250, X93549, A63261, D88507, AR008277, AR008281, AR008408, AR062872, A70867, AR016691, AR016690, U46128, D13509, A64136, A68321, AR060133, I79511, X72378, U79457, AF123263, AF135125, AR032065, AR008382, and AB033111.
HTXPJ03	6548	922877	1 - 474	15 - 488	AL109830.
HTXPK10	6549	963397	1 - 639	15 - 653	AC005783.
HTXPK28	6550	957888	1 - 339	15 - 353	AC005261.
HTXPO91	6551	869224	1 - 722	15 - 736	AL049653.
HTXPO92	6552	869214	1 - 665	15 - 679	AP000700.
HTXPP33	6553	799925	1 - 759	15 - 773	D80038, D80164, D51423, D59275, D80195, D50979, C06015, C14389, D59467, D80227, D59502, AA305578, D80043, D58283, D81026, D80269, D80193, D59859, D59610, D80022, C14331, D80166, D59619, D80210, D51799, D80391, D80240, D80253, D59787, D80268, AA305409, D80439, C15076, D51103, D81030, D80188, D80247, D80248, D80522, D80212, D80366, D80196, D51022, D80045, D80219, D80302, D50995, AA514188, D59927, D51060, D57483, C14014, D80378, D80241, D59889, D80133, D80024, AA514186, AW360811, AW177440, D80157, D80251, T03269, D51759, AW178893, C14429, AW377671, AW375405, D59653, C75259, AA809122, AW178906, AW177731, AW179019, H67866, D45260, AW366296, AW360844, AW360817, AW179328, C05695, AW179020, D59373, AW375406, T48593, AW378534, AW179332, T11417, AW377672, AW179023, AW178905, AW178908, AW378532, AW378528, AW178762, AW177501, AW177511, D59503, AW360834, H67854, C03092, AW352171, AW377676, AW179004, AW352170, D81111, AW178907, A1525923, AW179024, C14227, D59317, D80132, F13647, D59627, D80258, AW177505, D52291, D51250, D80134, AW360841, T03116, D80064, AW178775, AW178909, AW177456, AW176467, AW178986, AW179329, AW177733, AW352120, AW179009, AW178980, D58246, D60214, AW178914, AW178911, AW178754, AA514184, AW179018, AW352158, D58101, AW367950, D51213, AW352117, A1525917, D80014, AW178774, C14973, C147734, C14344, AW378533, A1535686, D51221, A1525227, D59474, AW179012, C14407, D59551, D59695, D60010, AW378525, AW177722, AW352163, A1525920, A1557751, AW378543, AW378540, AW378542, C14957, A1557714, AW177728, A1525242, C14046, AW378539, AW177723, A1525215,

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HTXPR92	6554	869221	1 - 389	15 - 403	
HTXPT68	6555	870074	1 - 455	15 - 469	W52804, AA261853, W07856, AA283855, AA077296, AA319080, W60104, AL046053, AA496372, AA402082, AA077601, AA101354, AW402545, AA078651, R11246, AW405789, AC006014, AL117583, AB014518, and AC005488.
HTXPW03	6556	922884	1 - 423	15 - 437	
HTXPW20	6557	869198	1 - 538	15 - 552	AI041722, AW301211, AA420513, AW301191, AI862185, AA338281, H68343, AW080772, AA564925, AW410784, AI283842, H73550, AI066416, AA579152, AI693979, AA508148, AI819391, AC002126, Z82190, AL049394, AC004908, AC005164, AC005924, AC005412, AC006121, AC004263, AL132992, AL020997, AL122020, AP000346, AC002425, AL031291, AP001068, AL117344, AC004983, AL031428, AC004832, AC004653, AC003029, AC003950, AJ011930, AF129756, AC005015, AP000272, AP000104, AC003982, AC006468, AP000510, AL109759, AL022336, U05309, AC004644, AL031321, AC002400, AL035703, AC006344, AC007938, U89336, AB023048, AL022320, AC005726, AL121825, AC002119, AC005585, AC005778, AL008582, AC005940, Z83845, AP000269, AP000103, AL133500, AC006385, U91323, AC005971, AL109963, AC002558, AC005072, Z95329, AC005049, AL022330, AC004032, AC002365, AC000379, AL033524, AP000553, AC002045, U82757, AC006163, AL049692, AC004841, AC006450, AC004149, AP000297, AP000112, AP000044, AC004132, AP001053, AC005899, AC007676, AC005598, AC002312, Z82178, AC002395, AC006023, AC004883, AC005529, AL132994, AC002565, AC004589, Z73417, U95090, AC004645, AC005379, AF001552, AL009179, AC003667, Z98946, AC004593, AC007878, AC007919, AC004079, Z97055, AC006270, AC005488, Z82176, AC005952, AP000279, AC005363, AC005606, AP000106, AP000038, Z95113, AC006042, AC001231, and AP000152.
HTXPX02	6558	918494	1 - 526	15 - 540	AA569047, and AC008545.
HTXQA18	6559	869184	1 - 593	15 - 607	
HTXQC36	6560	961161	1 - 633	15 - 647	
HTXQC77	6561	974033	1 - 705	15 - 719	AL021331, AL023754, AC002314, AL080243, AC004963, AC002102, AC005779, AC005757.

HTXQF10	6562	963403	1 - 557	15 - 571	AC006287, AC005011, AL078596, Z74477, AC007435, AC004926, and AL121653.
HTXQM11	6563	965645	1 - 650	15 - 664	Z97989.
HTXQN24	6564	963503	1 - 487	15 - 501	AI183539, R06046, H96741, N24376, AW269964, AW130380, and AA033943.
HTXQR90	6565	869139	1 - 486	15 - 500	
HTXQU07	6566	952030	1 - 386	15 - 400	AC002531.
HTXQW02	6567	918081	1 - 445	15 - 459	
HTXQW29	6568	869134	1 - 456	15 - 470	AA355311, and AL039535.
HTXRA11	6569	965596	1 - 392	15 - 406	
HTXRB38	6570	869133	1 - 344	15 - 358	AC004508, and AL049549.
HTXRC17	6571	973981	1 - 538	15 - 552	
HTXRD51	6572	921285	1 - 484	15 - 498	AA381937.
HTXRE04	6573	926371	1 - 422	15 - 436	
HTXRJ02	6574	918031	1 - 609	15 - 623	AI418397.
HTXRM86	6575	975072	1 - 564	15 - 578	
HTXRO02	6576	918009	1 - 194	15 - 208	
HTXSB88	6577	914627	1 - 832	15 - 846	AA026814, AA127612, AL110352, H54652, N78337, AA534175, AA489133, R50909, AW381645, AA329024, H51803, N78336, H08302, AW139389, AA034086, T74441, F20615, F20584, N87003, AA315270, AI168489, AA025761, N47927, AW369408, AA921775, H48655, Z46044, and AF077042.
HTXSK91	6578	915903	1 - 449	15 - 463	AI989940, AI950415, and AI656850.
HTXSR92	6579	973095	1 - 416	15 - 430	AA320236.
HTYNC52	6580	869119	1 - 450	15 - 464	AW152346, AW057660, AA225627, AC006040, AC002350, Y14768, AC002558, AL021918, AL022322, AP000553, AL096791, AC005726, AP000505, AC007536, AL080243, AL031680, and AC005015.
HTYSB62	6581	768350	1 - 333	15 - 347	AA380842, AI819188, and AW402301.
HTYSD32	6582	702994	1 - 420	15 - 434	H30348, AL009031, and AC002326.
HTZAB04	6583	973811	1 - 636	15 - 650	AW366296, AW375405, D80045, AI905856, AW367950, AW375406, AW177440, AW360811, T03269, T48593, AW378532, AW178893, C14389, AW352171, AW179328, D80164, D59467, D58283, D59859, AW377671, D80022, AW360844, C14331, D80166, D80227, D80195, AW360817, D80193, D59927, D51423, D59619, D80210, D51799, D80391, D59275, D80240, D80253, D80043, D59787, D59502, AW178905, AW378534, AW179332, AW377672, AW179023, D81030, AW352174, AW177731, D80212, D80196, D80188, D80219, C15076, AW369651, D81026, D80269, D80038, D57483, D80366, AW177501, AA305409, C14429, AW177511, D50979, AW179020, D50995, AW352158, D59889, D59610, D80024, AA305578, D51022, AW178762, AW377676, AW178907, AW178908, AW352170, AW179019, AW179024,

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HUJAB25	6584	878465	1 - 341	15 - 355	
HUJAG07	6585	951873	1 - 509	15 - 523	AI890529, AA833799, AA832067, AA743086, AA612890, AA808056, AA745893, and AW104930.
HUJAM39	6586	911399	1 - 1309	15 - 1323	AA280958, AW401543, AI940118, AW385179, AI763106, AW175909, and AA156129.
HUJBL07	6587	951874	1 - 412	15 - 426	AC005003.
HUJCB67	6588	958914	1 - 453	15 - 467	AW407535, and AW403048.
HUJCM08	6589	957784	1 - 720	15 - 734	AF128893, AF114847, AB016767, AF121948, AF015950, and AF018167.
HUJCT61	6590	933920	1 - 649	15 - 663	
HUJCV04	6591	926175	1 - 373	15 - 387	AW194140, AB002354, and AC003663.
HUJDB08	6592	957786	1 - 823	15 - 837	AA804187, AA570372, N27615, AI818362, AW002330, AA827490, AA714073, AL042777, H80989, AA360910, AA780766, AI924127, AA775929, AI065038, AA077667, AA659832, AW193337, AA758275, H52638, AA376358, AA788592, AA814878, T48241, F11718, AW149288, AA229422, AA825185, AW089016, F35902, AW302670, AA630122, AA077619, AA084880, AA086042, AI697425, AI915081, AA654874, AL119382, AI283924, AI879908, H90878, T06485, AI874341, AL119444, AA584594, AI368732, AA091529, F23294, Z98474, C14330, AI718462, AA721523, AA856851, H73550, AI366555, AA229988, AI266028, AA626411, AI683116, AA904211, R74433, AA434078, AL041681, AL041682, T05118, AI038759, AI160786, AA706202, R93919, AA668715, W24312, F24745, AI758799, AA504951,

					AA613754, W81372, AA219349, AA523695, AA50757, AC004491, AC004859, AL031848, AC005005, AC004259, AC004600, Z98752, AC007546, AC005082, AC006042, AL031577, Z98304, AC005074, AC007052, AC006121, AC004865, AC005375, AC005189, AC000091, AL133396, AL049563, AL080250, U95742, Z83847, Z68284, AL049759, AC002381, U50871, AL109865, AC004106, AP000745, AC007878, AC003043, AC006157, AC007216, AL022323, AC005476, AF134726, AL035555, AC005209, AL031587, AC005037, AC004916, U91322, AC007114, AC002425, AC007253, AC004622, AC004933, AJ011930, AL109985, Z82203, AF111168, AL022327, AL031118, AC007363, U89337, AL022722, AC004765, AC006539, AL022165, AL022336, AC002400, AP001038, AC000004, AC004596, AC004552, Z93020, AL020997, AC004583, AC002128, AP000352, AC004140, AL049764, AC003667, AC007283, AC011311, AL135783, AL049872, Z84487, AL121652, AC006101, AC004079, AL031685, AC005876, U85195, AC003962, AC007637, AL035422, AL049636, AL049835, AJ229042, AL022238, AC005535, AL031595, AP001068, AL121757, AC006026, AL031120, AL031584, AC003661, AC006561, Z68276, AD000813, AC005182, AL121603, AC002476, AC006254, AC007262, AP001067, Z49866, AP000046, AP000114, Z98885, AC005668, AL008732, AL031985, AC005015, AC005829, AL049832, AF165926, AE000658, AC003042, AL031673, AP000344, AL049780, AL050321, Z82201, AF015416, AL022313, AC002395, AL031133, AC006965, AC005342, AC007785, AC005033, AL031007, AC003070, AC007899, AC002091, AF095901, M55987, AC004804, Z95114, AC003035, AL031666, AC002980, Z98941, AL022476, AC006966, Z75744, AF190465, AL022320, AL034555, AC006501, AC006017, AP000694, AC002464, AP000701, AC005763, AC004103, AP000304, AC005952, U78027, AC005262, AP000558, AL021918, AC004832, AC004653, AC003663, AC002470, AL023575, AL021397, AL031686, AC005399, AC002448, AL031599, AL050307, AC006317, AC005880, AL035072, AC006208, AC005164, AL121825, AL109801, AC005378, AC000159, AL031005, AL121754, AC006263, AC006530, Z84480, AF111167, Z82202, AC006512, AC004668, AL035671, AL049709, AC005722, Z82194, AC004815, AL109839, M87889, AC006432, AC000078, AC005778, AC005066, AC005154, AC005697, AC007207, AC006080, AC016830, AC004381, AL031670, AC004955, AL035443, AL031602, AL031311, Z98743, AC003688, AL049742, AL133500, AC005089, AC007938, AC004125, AP000047, AL031680, AL020996, AF124730, AC009501, and AC005067.
HUJD158	6593	920851	1 - 612	15 - 626	
HUUAJ10	6594	914330	1 - 777	15 - 791	W92719, and W92718.
HUUAJ82	6595	966885	1 - 637	15 - 651	Z55173, and Z55172.
HUUAJ12	6596	968953	1 - 643	15 - 657	
HUUAJ06	6597	966816	1 - 599	15 - 613	AI143114, AI741038, AW408346, AI199199, AI553781, AI159848, AI870663, AW009857, AI369858, AA306925, AA116026, AI168007, AI560107, AA580263, AA565402, AA565504, AI056118, T78900, AW016397, AI358502, AA565503, AI989730, AA102803, AI094220,



					AA772713, AA147209, AA809418, AA235853, AA812366, AL520722, AL273152, AL031924, AL197902, AA854522, AA541445, AA813910, AL160408, F32212, AW381946, AA808361, AL025417, AA214593, AA312286, AA807833, AL886250, AA760697, AA306027, Z93241, AF151854, and AL022316.
HUUA83	6598	921559	1 - 358	15 - 372	
HUUC06	6599	933322	1 - 447	15 - 461	
HUUC07	6600	951824	1 - 349	15 - 363	
HUUC012	6601	969258	1 - 91	15 - 105	
HUUCP08	6602	957715	1 - 497	15 - 511	AL355246, AL679759, AL923052, AA904211, AA613624, N95817, AL079901, AA468975, AC005726, AC005799, AL021937, AL034549, AC007151, AC005519, AP000493, AC005911, AC005520, AC007066, AL049780, AF088219, AC005666, AC005081, AL121652, AF130342, Z93017, AC006017, AC005228, AC004699, AL022069, AC007052, AC004106, AC007226, AC007283, AP000513, AC007055, AC006211, AL139054, AC005755, AC006430, AC005829, AC005697, AC005722, AC004890, AL110502, AC004694, AL133371, AC005358, AC009464, AL135747, AC005158, L11910, AC004686, AL008629, AL008710, AF130343, AL132987, Z98751, AC007934, AL049709, AC009498, AC006285, AC005670, X87344, AC007993, AL022574, AC006312, AC007899, AC003087, AC007565, AL121655, AC005859, AL049589, AC004477, AC004526, AC007676, AC004675, AC002369, M89651, AC005875, AC005229, AL109984, Z81365, AC005071, AC007528, AL031230, AC006271, AL031685, AL035090, AC005089, AC005531, AC006480, AC003042, AL008723, AP000688, AC005189, AL008729, AL080248, AL035422, AC004079, AC000353, AL049713, AL031311, AL031575, AC007216, AC003664, AC006065, AC006960, AC005899, AL031312, U82828, AL022396, AC004098, AC005234, AC006011, AC007637, AC004797, AC002527, Z95125, AF205588, AC003075, AC004888, AC005730, AL022326, AL031775, AC004033, AC005599, AC005067, AL121595, AL031680, AC004531, AL133245, AC004024, AL031316, AC007842, and Z98946.
HUUCQ03	6603	915269	1 - 907	15 - 921	AC000119.
HUUCS49	6604	965987	1 - 504	15 - 518	AL046287, D78805, D78848, R11003, AL044772, T79263, and Z82171.
HUUDG08	6605	957721	1 - 391	15 - 405	
HUUDJ10	6606	961717	1 - 623	15 - 637	
HUUDS10	6607	961706	1 - 325	15 - 339	AA457765, AL349129, AA824626, H24051, H73550, AA720833, AA378718, AW088835, AA045600, AL050070, AA339092, AL399992, AC005237, AC011331, AC005102, AL031587, U52112, L4140, AC009288, AC005527, AP000552, AC007993, AC004963, AL049758, AJ006345, AC005529, AC004967, AC000377, AL033525, Z85986, AL022314, AC003684, AC003101, AL034429, Z92844, AC002352, AC004893, AC005104, U91321, Z97635, AC006040, AC004686, AL008718, AC002991, AC004851, AP000313, AP000050, Z95118, AP000117, AC002492, and AF038458.
HWAAE23	6608	675326	1 - 750	15 - 764	AA610659, T94692, AC006388, AF111168, AL009174, and AC003663.

HWAAE55	6609	719194	1 - 349	15 - 363	
HWAAE90	6610	778917	1 - 407	15 - 421	
HWAAF27	6611	721151	1 - 432	15 - 446	AC002126.
HWAAF66	6612	908541	1 - 389	15 - 403	AA884296.
HWAAF81	6613	712203	1 - 336	15 - 350	AA652914, and AA807140.
HWAAAL31	6614	697716	1 - 537	15 - 551	Z85996.
HWAAAM04	6615	614973	1 - 394	15 - 408	R84880, AI032875, T27238, AW162263, T49209, AW388701, AW388609, AA918754, AI445934, AI733754, AA807287, AI285709, AI792664, AW004638, AI095123, AA099624, AI393841, AC005412, AF050154, AC002365, AJ249921, AC005015, AC002045, AL049759, U91321, AP000285, AP000286, AC004262, AP000109, AP000041, AP000692, AC003049, AC002300, AC004084, AP000111, AP000043, AC004895, AP000212, AP000134, AL035209, AC004912, AP000295, AC005011, AC008126, AC002039, AP000031, AC006274, AP000252, AP000152, AP000010, AC004893, AC000097, AC007663, AC006549, AC006547, Z92547, AL080243, AL035562, AC012599, AL020993, AP000555, and AC006541.
HWAAAM23	6616	675712	1 - 546	15 - 560	AA569796, AA190348, AW408725, T64954, AW407501, AW390099, AB011126, and AL049935.
HWAAAR36	6617	915621	1 - 479	15 - 493	AC007032.
HWAAAW7 4	6618	935602	1 - 567	15 - 581	AW402458, AW193493, AW192330, AA457685, R92629, AA350186, AW270258, AA580116, AA53448, AI124798, AI920972, AI678392, AC002115, AL049780, D84394, AC003695, AC005856, AC006530, AP000509, AL133246, AL035587, AC004185, AC002544, AP000690, AC004386, AC002418, AC005730, AL049869, AC004983, AP000689, AL035455, AC004019, AL031120, AC005914, AC005666, AC005972, AC003664, Z83840, AC007510, AL031230, AC007388, AE000660, AL031589, AP000512, Z84485, AP000555, AL024509, AC005261, AC006160, AC003983, AF196970, AC007676, AC003037, AC005037, AL031650, AC005520, AC006285, AL096712, AC005224, AC008115, AL009181, AC003077, D86992, AL049777, AL079303, AC005921, AP000694, D88270, AC007216, AC004033, AC006057, AC004531, D87675, AC006468, AC006017, AC005476, Z98051, AL023879, AC004526, AL022320, L78833, AC004893, AC002350, AC007055, AC004659, AC005500, AC007687, AL020997, AL022476, Y10196, AC008498, AC007298, AC005061, AC005004, AL031132, AL034406, AL021578, AC004813, AC004106, AC007546, AC002310, AC003071, AC006251, AC007563, AC004831, Z83846, AC006449, AC005015, AC007543, U66083, U63721, Z82246, AP000126, AP000204, AC004584, AP000089, AC005768, AC007226, AC005215, AL117337, AC004491, and AC007536.
HWAAAY03	6619	923734	1 - 402	15 - 416	
HWABA49	6620	859878	1 - 369	15 - 383	AW407837.
HWABB37	6621	870088	1 - 368	15 - 382	AA985132, AW407779, and AW068669.
HWABE67	6622	751418	1 - 219	15 - 233	AL117351.

HWABE94	6623	838096	1 - 528	15 - 542	AA693936, AI758902, AI347305, AI707616, AW235273, AA505993, AA007507, AI198564, AW408843, W89117, AI817959, AI014474, N78660, AI818949, AI818952, AI818934, AA827181, AA807696, AI478470, W28310, AI620079, W28761, AA504463, AA504537, C00613, AA630618, AA621088, AA034986, AA033755, AA609139, AW408062, R56755, AI342134, AI368615, D31434, AA252777, AA976522, AA779863, AA868560, W15149, AW385052, F11972, R33966, AI955209, T63060, T65487, T58123, AA443135, AW170522, AL039390, AL046681, AL042009, AL046137, AL047188, AI446483, AI049726, AA598862, AI890907, AI249936, AI672187, AL045503, AL042551, AL042503, AW337394, AB029003, and AC002400.
HWABF91	6624	698131	1 - 437	15 - 451	AI805973.
HWABI18	6625	529803	1 - 521	15 - 535	
HWABQ57	6626	734536	1 - 317	15 - 331	AL134038, AA610414, AA091193, AC005593, Z95152, AC006112, AL121757, and AC003987.
HWABS04	6627	494837	1 - 370	15 - 384	
HWABS51	6628	719221	1 - 423	15 - 437	AA340284.
HWABT82	6629	784211	1 - 105	15 - 119	AA468312.
HWABW02	6630	919441	1 - 327	15 - 341	
HWABW15	6631	659944	1 - 817	15 - 831	
HWABW34	6632	703861	1 - 333	15 - 347	
HWABW78	6633	865145	1 - 338	15 - 352	AL078584, and Z78726.
					AI417830, AI123348, AI123698, AI470030, N53143, AW342077, AI955224, H17323, AW000844, AA534687, AW294198, H17823, T15834, R69639, AI248017, R42888, AA553685, T26637, R69560, R36850, T34756, R39028, AI991788, T99687, and AF131762.
HWABX49	6634	685187	1 - 333	15 - 347	AA243866, AW001383, R36135, AL078593, AB014580, and AC002526.
HWABX68	6635	752825	1 - 373	15 - 387	
HWABY12	6636	968857	1 - 565	15 - 579	AC006991.
HWACA38	6637	943074	1 - 1037	15 - 1051	AW407984, AW408019, AA251937, H14675, and AL035530.
HWACB75	6638	685247	1 - 448	15 - 462	
HWACG21	6639	868530	1 - 324	15 - 338	AI888883, AA828227, AW303196, AA666332, AI732547, AW301350, AA468131, AL031289, AL121825, AC004889, AL031003, AC005138, AL049569, AC002527, AC002456, Z98946, Z83846, AL133244, AL035410, and AL109967.
HWACG64	6640	675517	1 - 460	15 - 474	T18924, and AF075587.
HWACG68	6641	752710	1 - 470	15 - 484	AA491189.
HWACG94	6642	670912	1 - 309	15 - 323	
HWACH33	6643	686740	1 - 389	15 - 403	
HWACH49	6644	722572	1 - 438	15 - 452	AC008039.
HWACK78	6645	753565	1 - 468	15 - 482	
HWACM17	6646	662307	1 - 390	15 - 404	AW183544.
HWACP03	6647	869938	1 - 659	15 - 673	

HWACQ19	6648	668093	1 - 514	15 - 528	AI418472.
HWACR28	6649	685983	1 - 390	15 - 404	
HWACR77	6650	771777	1 - 105	15 - 119	AC005058.
HWACU96	6651	787349	1 - 247	15 - 261	
HWACV04	6652	927275	1 - 466	15 - 480	
HWACX82	6653	705560	1 - 408	15 - 422	
HWADA93	6654	647703	1 - 919	15 - 933	R56516, R13563, H69607, Z42062, and Z97989.
HWADE38	6655	709487	1 - 433	15 - 447	
HWADF26	6656	957347	1 - 1087	15 - 1101	AA424848, T60164, AA426628, AA173389, and AC007068.
HWADG01	6657	915567	1 - 412	15 - 426	AW022544.
HWADG26	6658	680182	1 - 410	15 - 424	
HWADG27	6659	958200	1 - 673	15 - 687	AW340327.
HWADI32	6660	698651	1 - 356	15 - 370	AC004223.
HWADI53	6661	727820	1 - 737	15 - 751	AI022632, AI022651, T91891, T84838, H47614, H47703, and N57905.
HWADI29	6662	690074	1 - 397	15 - 411	
HWADL02	6663	918986	1 - 302	15 - 316	AA380962.
HWADL36	6664	706697	1 - 868	15 - 882	
HWADM30	6665	868520	1 - 343	15 - 357	
HWADN19	6666	657528	1 - 374	15 - 388	
HWADN21	6667	670274	1 - 440	15 - 454	
HWADN46	6668	924888	1 - 711	15 - 725	T32685, R25015, T30407, AW401787, F07299, and Z44281.
HWADO54	6669	729136	1 - 562	15 - 576	
HWADP26	6670	680211	1 - 621	15 - 635	
HWADQ27	6671	682448	1 - 570	15 - 584	
HWADQ91	6672	693834	1 - 346	15 - 360	
HWADR47	6673	944042	1 - 320	15 - 334	D19587, AW022757, AW021357, H08415, AA099186, R51350, AA058389, H07129, T30155, AI810672, AI700760, AA291583, Z38445, AI936412, AI913143, AA449107, AW383953, AI952893, AW025467, AI653296, AI823647, AI978760, AI890309, H13605, AW080154, and AB018298.
					AW292252, and AC002107.
HWADS43	6674	675454	1 - 367	15 - 381	AW341101.
HWADS53	6675	717544	1 - 339	15 - 353	
HWADV51	6676	916669	1 - 450	15 - 464	
HWADV82	6677	708688	1 - 403	15 - 417	
HWADW4	6678	722343	1 - 322	15 - 336	H26533, T77241, and AI206163.
HWADX46	6679	718647	1 - 556	15 - 570	AC000353, Z93341, AL135960, AI131016, Z82176, and AC004263.

HWADX62	6680	868509	1 - 497	15 - 511	R14731, AA425283, AA703818, AA180056, AL204310, AL338884, AA669238, AA601084, AI355572, AL133861, AI653695, AA610644, AI754064, T07251, AL138119, AI446424, AI299352, AI086603, AI589378, T05002, R22196, AI823395, AI057560, AA342040, AC008039, AC005184, AC003685, AC007308, AC000007, AC005808, AC007911, AL139054, AB001523, AP000127, AP000205, AP000245, AC006132, AC005067, AP000692, AC005326, AF124730, AF015416, AC004263, AL031680, AC006137, AL022165, AC007458, AC002366, AC004605, AL034395, AC010205, Z94865, AF124731, AL022158, AL049795, AL035413, AC004622, AC008044, AF030453, AC007372, AC005088, AL121757, AL049837, AC006581, AC006511, AC005594, AL049570, U80460, AC002528, AC005949, AC005730, AC005082, AC006121, AF111167, AC007688, AC003064, AP000532, AC002471, AC005374, AC005300, AC002422, AC004000, AC000115, AL117354, AL079342, AP000361, AP000151, AC005049, AP000009, AC006479, AC002060, AC009248, AC005358, AL035684, AC006557, AC002477, AC005295, AC005535, AC005225, AC008928, AL022313, AC004655, U52852, AC008038, U80459, AP000302, Z15025, M63543, U93163, AL008719, M63544, Z97630, AL008734, AF038458, AL008582, AC004242, AC004878, AC004797, Z97632, AL049636, AL031655, AL133241, AL022721, AC008126, AF000661, AL122021, AL033527, AP000555, AC004650, AC006369, Z84497, AC003072, AL035695, AL031311, AC004993, AC006120, AC004084, AC007227, AC016025, AL109865, AL109963, AC004897, AP000466, AC006285, U91318, AP000556, AP000514, L78833, AC010436, Z93241, Z97054, AC003687, AC005519, AL031427, AC004125, and AP001055.
HWADY59	6681	738874	1 - 602	15 - 616	AI821020, T60655, and AC005856.
HWADZ21	6682	670270	1 - 368	15 - 382	AL008725.
HWADZ84	6683	782682	1 - 308	15 - 322	
HWAEA55	6684	731094	1 - 311	15 - 325	
HWAEA60	6685	964384	1 - 390	15 - 404	AA603319, T99553, T82934, AW138561, AI393407, AA884256, AW269941, AA825272, D60479, and AI762108.
HWAEB19	6686	750811	1 - 407	15 - 421	
HWAEB94	6687	778009	1 - 203	15 - 217	AC005280.
HWAEBC75	6688	852921	1 - 1336	15 - 1350	AA259167, AW275379, AA417330, AA417318, AW451308, AA259128, AI286274, T74279, F12417, F10034, T89018, AA021236, AI907832, AA565356, T23907, and AC006011.
HWAEGB1	6689	915064	1 - 326	15 - 340	
HWAEK82	6690	868489	1 - 451	15 - 465	AW392670, U46349, AL119483, AL119418, AL119355, AL119319, AL119457, U46341, AL119324, AW372827, AW384394, AL119497, U46346, AW363220, Z99396, AL119484, AL119363, AL119391, U46350, U46347, U46351, AL119443, AL119444, AL119341, AL134538, AL119439, AL119522, AL119396, AL134902, AL119335, AL042975, AL134920, AL037205, AL134527, AL134536, AL119399, AL043029, AL119496, AI142134, AL134531, AL134533, U46345, AL043011, AL042984, AL042614, AL042433, AL134526, AL042544, AL043033,

					AL042965, AL042450, AL042542, AI142139, AL043019, AL042973, AL043003, AL119464, AL042551, AB026436, AR066494, AR060234, AR054110, A81671, and AR069079.
HW/EN20	6691	868490	1 - 459	15 - 473	R10255, and AC005940.
HW/AFD32	6692	850048	1 - 483	15 - 497	
HW/AFG08	6693	958173	1 - 448	15 - 462	AA669840, AA533725, AA604897, AA714453, AI471543, AA670468, AA493708, AI262909, AA491814, AI281881, AA682912, AI357288, AW080134, AA908422, AA346458, AA810370, AI284640, AI138265, AI298710, AA678436, AA931647, AA502866, AI246119, AA521323, AA493206, AA623002, AI061334, AI344844, AI860020, AI801600, AA503600, AA688036, AA513972, T56472, AI801591, AA491284, AW301350, AI350211, AW303196, AI610159, AA525824, AA678443, AW274349, AI345518, AA771811, AA521399, AA630030, AA593247, AA485291, AA806796, AI343137, AA469451, AA649542, AA649484, T07451, AI686809, AA649722, AA553465, W79504, AI708009, AA621704, AW269488, AA653618, N25296, AA350859, AW084252, AA669251, AA507824, AA973803, AA599920, AW084961, AW193432, AW419262, AW072923, AW193265, AA664015, AA568778, AI537955, AI688846, AI887483, AW438643, AA584167, AI471481, AA729721, F18320, AW303876, F36273, AA480772, T05101, AA554319, AI345654, R98967, AI282832, AI281697, AI245679, AA551503, AW151727, AA610491, AA749068, AI119691, AW406659, H77643, AW088202, F18638, AA828042, H81785, AA526342, AA744031, AA252763, AA158956, AI499938, F16274, AI674873, AI929531, AW029038, AI339850, AW440836, AI053672, AI046205, AA719805, AA644207, T06556, AW088058, F18974, AA719080, AI270117, AA368936, AI446464, AA364429, AA244357, AA649642, AI251002, AA643962, N63352, AA507776, AA338486, AA831375, AW102955, AI619997, AW327868, AA371533, AI243584, AA523838, N55273, AA309841, AW339568, AI160117, AA873532, AA252263, AI251436, AW023672, AI287651, AI002834, AI471464, AI046457, AA468131, AW261871, AA664407, AA613232, AA634145, AW265385, AA492166, AI962050, AA598586, AA984708, AA862173, AA487858, AI653905, AI469003, AI580652, AA602528, AW302013, AA837084, F03525, F23250, AA649705, AA722048, AA634146, AI696962, AA825357, AI434706, AI890923, AA708352, AI355206, AA569468, AA810318, AI697208, AI367497, AI046409, AA133406, R97780, AI445582, AA493471, AI471487, T06828, AF150152, AA133333, AW103981, AA194761, T53128, AI003751, H71429, AI307608, C06303, AA233519, AI254316, AA586562, AA515128, AA570227, AA579736, F10924, AA501722, AA837677, AI044940, AA280632, AI379719, AI888008, AA577906, AA635442, AA437161, F01314, AI038705, AW238278, AA528516, AA426277, AA829223, AA365694, AA970213, AI002820, AI249997, AA654761, AA578481, AA558015, AA340747, AA713891, AA532524, AW276435, AI033547, AC006449, AC002369, Z98257, AC006130, AL121652, AI031729, AI021918, AF176815, AC005690, AF196779, AI031123, AI031005, AC006511, AC005911, AC005011, AL022476, AI049712, AC004957, AC005072, AP000047, AC005484, AC006040, AC004067, AC006211, AC004812, AC006430, AC007227, AC004858,

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HWAFR09	6694	973926	1 - 377	15 - 391	N34609, H08455, W22751, AC007566, and AL137349.
HWAFR03	6695	922832	1 - 399	15 - 413	
HWAFW34	6696	926801	1 - 278	15 - 292	
HWAFW39	6697	947915	1 - 518	15 - 532	T27535, AF106037, AF222340, AB011097, and AF183569.
HWAFX39	6698	907631	1 - 357	15 - 371	
HWAFY24	6699	868427	1 - 347	15 - 361	
HWAFZ13	6700	873396	1 - 501	15 - 515	AW161021, AI870319, W46922, AB035173, and AB035174.
HWAFZ82	6701	868426	1 - 525	15 - 539	AC005534.
HWAGC76	6702	941311	1 - 596	15 - 610	AI337376, W86648, N46466, AA522544, AI341807, AI651516, W86523, AI279721, AI245138,

									and AI262580.
HWAGD11	6703	965895	1 - 610	15 - 624					AW403858.
HWAGD58	6704	869383	1 - 839	15 - 853					AA976889.
HWAGE40	6705	926279	1 - 291	15 - 305					N32456, and AL008730.
HWAGG79	6706	930876	1 - 274	15 - 288					AW027612, AI768868, AI337456, and AF015416.
HWAGJ49	6707	838759	1 - 574	15 - 588					Z95152.
HWAGK95	6708	868403	1 - 983	15 - 997					
HWAGL53	6709	842011	1 - 639	15 - 653					AI668608, AI820783, and H25907.
HWAGM33	6710	888685	1 - 1127	15 - 1141					AW027021, W60174, AW385598, AW070853, H11581, H23044, AW028265, R55140, AA018982, R55003, AA330790, N80215, and AC004408.
HWAGX37	6711	959586	1 - 648	15 - 662					AA496792.
HWAGY05	6712	931001	1 - 679	15 - 693					
HWAGZ22	6713	868523	1 - 554	15 - 568					AA381062, and AF000497.
HWAH110	6714	960646	1 - 1811	15 - 1825					AI337112, AW157251, AI359543, AW025067, AA033852, AI923582, AW173477, AI469426, AI337164, AI248222, AI914411, AI218210, AW163254, AW264530, AA058937, AA846393, AI217342, AA307853, AA865741, AA937115, AA007277, AA482294, W76232, AI284228, AA007278, AI654340, AW242373, AA861264, AI494032, AI362710, AW029549, AA741378, AI807032, AI589216, AI302432, W72995, AI683775, AA813389, AW083309, AI280797, AA782972, AW002572, AA446320, AI919243, W70165, AA461498, AA354364, AA460572, AI216403, T32711, AI566648, AA482207, W70107, R41710, AA100835, AA314521, AA355060, Z40294, C03019, C04495, AA354171, AW237755, AA361131, AA337563, AA897525, AI040822, R18164, AA897166, AW387825, AW387760, AW387866, AW387873, C01307, AW387848, AA832384, AW381883, AW381787, AA330348, AF113538, and AL137375.
HWHS94	6715	909667	1 - 533	15 - 547					AA004442.
HWAE02	6716	918215	1 - 595	15 - 609					
HWB4B43	6717	715110	1 - 410	15 - 424					
HWB4B69	6718	582109	1 - 375	15 - 389					AI333255, AA453914, T83122, AA227768, AA534795, AW129554, AW129687, AI378305, AI191481, AF042810, AF042799, and AF042800.
HWBAC22	6719	823086	1 - 1044	15 - 1058					AA916171, AC003049, AC004917, and AC005785.
HWBAL44	6720	959449	1 - 553	15 - 567					AI018289, AA909162, AI472103, AW410437, AA303718, AA102327, N28787, AA059290, AW410431, AA054210, H86396, H86516, AA019783, AI684587, R28900, AL117550, AF113127, AF151877, and AF161526.
HWBAN54	6721	729329	1 - 380	15 - 394					
HWBAQ16	6722	868363	1 - 1070	15 - 1084					AI028018, T18971, and Y15381.
HWBAR44	6723	715963	1 - 397	15 - 411					AI140130, and AA719976.
HWBAR90	6724	788700	1 - 631	15 - 645					



HWBAS92	6725	960197	1 - 723	15 - 737	AW131438, and AA176971.
HWBAX06	6726	935032	1 - 103	15 - 117	
HWBAX39	6727	630220	1 - 453	15 - 467	AC005037.
HWBAZ51	6728	707033	1 - 401	15 - 415	
HWBBA64	6729	927809	1 - 448	15 - 462	
HWBBA83	6730	775401	1 - 557	15 - 571	AW178515, AW178491, AW178488, AW178658, AW178490, AW178544, AW178489, AW178541, and AW178487.
HWBBB48	6731	559708	1 - 236	15 - 250	
HWBBE01	6732	851029	1 - 385	15 - 399	AL020996.
HWBBF31	6733	868359	1 - 300	15 - 314	AF110908.
HWBBI20	6734	669491	1 - 365	15 - 379	
HWBBI54	6735	971547	1 - 471	15 - 485	
HWBBL78	6736	723183	1 - 661	15 - 675	AW070392, T86121, AI919539, U54727, and T91169.
HWBBM28	6737	686259	1 - 410	15 - 424	AW378979.
HWBBO46	6738	718858	1 - 640	15 - 654	R09834, and AF067844.
HWBBQ40	6739	660971	1 - 313	15 - 327	
HWBBQ86	6740	656704	1 - 446	15 - 460	AA744115, and AA744222.
HWBBR65	6741	747723	1 - 356	15 - 370	H57595, AC010205, and AC005409.
HWBBR78	6742	663728	1 - 342	15 - 356	AC004098.
HWBBV03	6743	868346	1 - 417	15 - 431	F34850.
HWBBV59	6744	682344	1 - 334	15 - 348	
HWBBV83	6745	771349	1 - 454	15 - 468	AA906879, AW207599, and AI240477.
HWBBW11	6746	966665	1 - 569	15 - 583	D20490, AA604681, AL049557, AL137199, and AL137198.
HWBBX08	6747	860880	1 - 642	15 - 656	
HWBBY01	6748	916036	1 - 906	15 - 920	AW339320, AI697885, AI150606, AA213437, AA243510, L44367, AW339015, and AC007298.
HWBBY74	6749	711633	1 - 715	15 - 729	AC007685, and AC007284.
HWBCA14	6750	768667	1 - 355	15 - 369	
HWBCA22	6751	674236	1 - 458	15 - 472	
HWBCA92	6752	712731	1 - 538	15 - 552	
HWBCC85	6753	784189	1 - 304	15 - 318	AL119762, H07953, F08248, AI307608, AI754336, T74524, AI696962, C15363, AI369580, AI821714, AI792133, AI791913, AA528559, AL037683, AA283730, AI669589, AA715814, AL135357, AA838190, AI431303, AI076228, AI580250, H65400, AI821785, AI793172, AI793209, AW264934, F12561, AW020992, AI696955, AW302705, AA579205, AI254316, AI609972, AW302659, AI061313, AA602906, AA829036, AW419262, AW020599, AA629992, AA507824, AI887235, AA297666, AA722372, AI244127, AA663201, AL135696, AI733856, AL038893, AA857486, AL138396, AA502991, AL079645, AA613227, AA574442, AA484267,

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HWBCC90	6754	744828	1 - 368	15 - 382	AC002302.
HWBCF85	6755	738552	1 - 305	15 - 319	N28654, AA339066, and AA361150.
HWBCG35	6756	707803	1 - 286	15 - 300	AF123320.
HWBCG45	6757	527679	1 - 333	15 - 347	AI791659, AL133861, AW275432, AI537356, H66812, AA515165, AI198211, F00112, T07569, AW438806, AI350189, AW302048, AI369977, AP000153, AP000153, AP000153, AF001549, AC004448, AC006026, AC005519, AC005057, AC006080, AC005399, AC004796, AL031295, L78810, AC004841, AC004765, AC004019, AC005412, AL080243, AF128525, AC002477, AL049795, U07563, AL096763, AL049757, AC007707, AC004973, AC006468, AC006571, AL080250, AC004817, AC004985, AC005670, AL031003, AC007686, AC005839, M63796, AF134726, AL024507, AC006515, L78833, AC005971, AC005666, AJ246003, AC006512, AP000555, M89651, Z83844, AC003010, AC005231, AC006277, AC005922, AC005837, AC006285, AL121658, AC007934, AC003689, M81890, AL023584, AP000030, AF165926, AL014079, AL031281, Z92545, AC004975, AC004881, AC005730, AL079340, AC006044, AL035587, AC002463, AL034423, AC006344, AL109628, AL022163, AC008044, AC005480, AL031589, Z98044, U91318, AL031662, AL096791, AC006121, AC006511, Z93018, AC009263, AC007536, AP000337, AC005907, AL050307, AC005913, AC002306, AC005072, AC007993, AL031680, Z94056, Z99716, AL021808, AL035460, AF205588, AC005755, Y14768, AC005529, Z83840, AC002527, AC004929, AC002420, AC005753, AC004150, AP000704, Z95331, AC003037, AP000505, AC004686, AC005828, AL031846, and AC005800.
HWBCN09	6759	868325	1 - 809	15 - 823	AC007032.
HWBCN55	6760	715064	1 - 548	15 - 562	AA508891, AA364869, AI537814, AI039257, AI823679, AA774098, AI798242, AI065031, AI064786, AP000153, AP000111, AC002301, AC004882, AC006126, AC005015, AC002350, AC003982, Z83840, AC005529, AC007136, AC003101, AC007283, AC004967, AC004883, AP000692, AL096701, AL031685, AC006930, AC006146, AC004185, AL049569, AC005280, AP000501, AC006312, AL035587, AP000247, AC005726, AC005484, AF001548, AC006487, AC005156, AC005231, Z84469, AC005844, AL121653, AC002073, AC004552, AC004895, AC004983, Z93017, AC005562, AF111168, Z98743, AC005520, AC005049, AC007066, AP000509, AP000115, AC000379, AC005183, AC005004, AL033527, AC003104, AC004765, AC004890, AC005914, AC004263, AC005081, AC004383, AC007041, AL133163, AL049830, AL121658, AC005808, AC004099, AC004084, AL022476, AP000252, AC002381, AC002312, AC007298, Z99716, AC005527, AC004032, AP000512, AC005089, AC005300, AC005954, AC004985, AD000091, Z98884, AC005006, AL008718, AF003626, AL022330, AC005412, AP000556, AC005921, AC004878, AL049869, AC005531, AC004832, AC005940, AL031283, AC006388, AC005971, AC005837, AL022165, AL008582, AC005182, AP000557, M89651, AC003108, AC003072, AL035072, AC008115, AC006430, AL137191, AC005409, AC004651,
HWBCQ10	6761	964233	1 - 802	15 - 816	

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HWBCQ29	6762	943720	1 - 669	15 - 683		AL022098.
HWBCS21	6763	960025	1 - 499	15 - 513		
HWBCS66	6764	765986	1 - 799	15 - 813		
HWBCU82	6765	955858	1 - 368	15 - 382		
HWBCW04	6766	925649	1 - 530	15 - 544		AW192334, AA845292, and AL034397. AA758151, AW303196, AW369785, AI820920, AA478048, AI821670, AA478209, AI874096, AW301350, AA584125, AL135357, AL042853, AA601125, AW022897, AA100718, AI819140, AA601202, AL038606, AL044340, AI733129, AA719292, AI683131, AI873990, AW022655, AA088327, AA522897, AA972809, AI557808, AI345797, AA376014, AI309375, R51018, AA584733, AI673336, AA577824, AW023662, AW274349, AA631517, AA912287, AW265032, AW419293, AL048135, AA630456, AI311034, AI344176, AI054333, AW384990, AA767637, AI345007, AA652790, AW079761, AI421841, AI254913, AL031985, AC005520, AC003037, AL009172, Z84469, AC010169, Z81365, AC004894, Z99127, AC006479, AF064863, AC002564, AC000353, AP000356, AC004143, AC007011, AC005018, AC018767, Z69838, AL031681, AC004388, AC009028, AC005668, AC004478, AL050321, AC005277, AC006251, AC004972, AC005075, AC007216, U95742, AC005003, AL121578, AC007198, AC003071, AC007314, AC002059, AL031656, U85195, AC006509, AC004088, AE000658, AP000555, AC002982, AC004856, AC003104, AP000035, AL035697, AC004148, Z97053, AL135960, AJ131016, AC005288, AC004458, AC004694, AC005994, AL021397, AL022165, AC002565, AC005747, AP000223, AL031291, AL022326, AC005690, AC005245, AC005251, AL022319, AC003658, AC004240, Z84484, AC004408, AF015148, AF020662, AL133445, AL031846, Z93244, AC008038, Z98304, Z98051, Z92910, Z83846, AC004967, AC008041, AP000694, AC004087, AC004112, AC009509, AC005011, AC007263, AL035072, AC005952, AC006077, AC003003, AR036572, U91328, AC007773, AF196779, AL109847, AL031055, AC004675, AC005486, AC008967, AF001549, AL133243, AL031283, AC004147, AC004051, AC007283, AL031281, AC005940, AC002990, AC005104, Z83844, AL121580, AL022336, AC011422, AC007193, AL031654, AC004648, AC007226, AF129756, AC005019, AC002385, AL021878, AL031575, AL078604, AF029308, U78027, AC007292, AJ239322, U91323, AC006075, AC007277, AC007686, AL049692, Z82198, AC005411, AP000697, Z84466, AC006333, AL022067, AL031053, AC008372, AC004079, AF090940, and AL035422.

HWBCW88	6767	882592	1 - 1321	15 - 1335	AI990120, AA010663, AA115329, AA142893, AA115240, AW451010, AA143167, AA947167, AA479671, AI807656, AI003817, AA862814, AA884865, AA889038, AA021652, AI338488, AA035167, AA193491, AA193487, AC007376, AF111169, and AB028959.
HWBCW90	6768	731395	1 - 556	15 - 570	AL022150.
HWBCY30	6769	828318	1 - 532	15 - 546	AW274000, AI768670, AI291098, AW044308, AW292871, AI333095, AI763411, AI277756, AI277757, AW295995, AI640134, AI438941, AA833791, AA928138, AA768096, W44749, AI075028, N26246, AA213455, AW004641, AA210688, AA724426, AA973149, H18543, AA827829, AA743465, H09231, R25082, AI928653, T10351, R33461, AI364687, and Z46059.
HWBDL50	6770	724145	1 - 593	15 - 607	
HWBDM24	6771	963498	1 - 1027	15 - 1041	AA486469, AA410963, AI791905, AA459612, W31955, AW137789, AI739525, AW204945, AW291807, and AJ388555.
HWBDP31	6772	697705	1 - 414	15 - 428	
HWBDR66	6773	750586	1 - 510	15 - 524	
HWBDS89	6774	771950	1 - 432	15 - 446	AC004381, and AC005820.
HWBDT15	6775	659939	1 - 217	15 - 231	
HWBDW71	6776	597259	1 - 424	15 - 438	AC009763.
HWBEA72	6777	950702	1 - 261	15 - 275	AW006846.
HWBEI17	6778	924913	1 - 197	15 - 211	
HWBEI53	6779	968493	1 - 106	15 - 120	
HWBEL53	6780	727617	1 - 342	15 - 356	AC004916, AC006328, AL133216, AC004842, AL031259, and AC004908.
HWBEL70	6781	733390	1 - 443	15 - 457	
HWBEL85	6782	954600	1 - 294	15 - 308	
HWBEV44	6783	716215	1 - 536	15 - 550	
HWBEV94	6784	788574	1 - 709	15 - 723	N28544, and H99861.
HWBEX27	6785	682583	1 - 475	15 - 489	AI391698.
					R98173, AA194819, AW338123, AW152107, AI242261, F05684, AI824448, AF205935, AB011090, and I41142.
HWBEY38	6786	709497	1 - 418	15 - 432	AA772370, H27788, H91330, AA644090, AA676592, AA613257, AA551181, AA463590, AC005914, AC009516, AC007216, Z68756, AC005954, U95742, AC006273, AC004477, AC005736, U91326, AJ009610, AC006241, Z84480, Z85986, AC012384, AL022323, AC005899, AC007993, AP001060, AC002115, AL139054, AC005529, AC009247, AC004019, AC007766, AC005081, AC005620, AC004967, AC005015, AC006468, AC005037, AL035587, AC005971, AL022721, AL022318, AC006441, AC002543, AF111167, AC006449, AC005527, AL021918, AC006001, AC005520, AF129756, AB023050, AL022320, AL109628, AL109952, AC004812, AL050318, AC007386, AL133245, AC004125, AL132712, AC002492, AC007226, AD000092, AC004929, AP000557, AC002312, Z93930, AC004491, AC004462, AC004099, AL031295, AC005696, AC003109, AC007298, AL034420, U85195, AC007676, AC004832, AF053356,

					U91323, AL031846, AC004883, AP000967, AC005940, AP000505, AC005264, AC004874, Y14768, AC007363, Z99716, AP000511, AL035086, AC006352, AC005288, AF001548, AE000658, Z93023, Z98051, AC003684, AC005619, AL031003, AC005231, AC006120, U52112, AC004139, AC007358, AF200465, AF207550, AC005065, AC004659, AF111168, Z97054, AC007011, AC005839, AL020995, AF124523, AF134726, AL049869, AC002544, AL133244, Z93017, AC002288, AC005667, AF109907, AL022336, AL133448, AL034423, AC018633, AD001527, AB023049, AC000353, AL021397, AC002350, AC006344, AL031432, AC004148, AC005225, and AC004386.
HWBEZ47	6787	719940	1 - 397	15 - 411	
HWBEZ69	6788	664699	1 - 420	15 - 434	
HWBEZ90	6789	923008	1 - 473	15 - 487	AW151761, AA740571, AA741403, AA633197, AA657910, AA225100, AA664248, AA527109, AW392414, AA768179, AW341882, AW019964, AL137946, AA774006, AW238495, H43183, AW068580, AI499954, H65697, AA662629, AA807704, AI671077, AA550959, H94979, AI754721, AA847427, AI871691, T05617, AA847508, AL047480, AI223968, AI791659, AA302682, AW407632, AI860535, AW104163, AA595656, AA553570, AA515172, AI630413, AA329535, AA662431, R99076, AI859906, AI636422, T40550, AA862075, F32248, T02817, T05684, AW132097, AI267356, AW169124, AW020875, AI653783, AA402113, T56181, AA225023, AW069412, AI859744, AI567391, F32213, AA015948, R87135, AA714073, H86579, T46997, AA368329, AL047467, AI453160, AI564294, AI378437, AW079737, AA714110, AA831997, R94909, AA225795, AA323644, AA502110, AI471455, AA484892, F32705, AA632765, AI288033, AI267450, AI283938, AI471467, AI826761, AA487829, AI928890, N79228, AL039309, N71579, AI536834, AA599199, AI754170, AW438876, AI356440, AW083934, AA586433, AW272740, AI583936, AA599199, AI754170, AW438876, AI356440, AW083934, H16875, AA156147, AI635609, H15241, AI687343, AI201668, AI370302, T03928, AI249688, AI590404, AW008184, AA678950, AI927261, AA653291, AA076418, AA566084, AA640252, AI694178, AA492105, N29936, AA864426, N63891, AI821249, AA187760, H91062, AW007424, AA828045, AA736447, AI355007, AA579281, AW128881, AA837771, AI038304, AA742775, AA748102, AI859438, AI754567, AI569100, AW192599, R34070, AI816136, AI583291, AI754105, AI369076, AI755214, AI354602, AI679390, AI679898, AA297776, AA515924, T94072, AL135639, AA741301, AI080307, AI936182, AL048825, AA568314, AI624379, AA569220, AA557945, N20034, F26713, AA126475, AA507526, AW190484, AA714062, H78898, AI799260, AI709180, AI866996, AI858632, W63553, AI246996, AA018923, AA862029, AA012829, AA988610, T87160, AC002472, AC007664, AC004486, AC007276, Z63710, AC003029, S77605, AC007546, AC002312, AC006318, AC004913, AL021453, AF111168, AC003969, AF161528, AC005066, AC005399, AL021807, AC004799, AC002404, X64467, AC003657, Z98304, AP000703, AC018633, AL031284, AP000702, AC004975, AL031597, AC007510, AC004794, AC002468, AC005157, AC006241, AC004149, AL049872, AL121825,

					AC019014, Z81365, AC006388, Z81357, AL049748, Z85987, AF196972, AC004531, AC002380, AL031659, AC010200, AL133371, AC005082, AL050337, AC005231, AL031230, AL023803, AC005914, U63630, AL031846, AC005954, AC005031, AC005546, AB032978, AC005696, AL109753, AC009263, AF196779, Z83845, AC009501, AC004883, AL031393, Z83851, AC004999, AL024494, AC004893, U80017, AC006511, AC009363, Z84467, AC004601, AC005684, AC003956, AC004409, AC004859, AC007114, AC007565, AL031985, AF092907, AC005015, Z95889, AF064861, AL035697, M17262, AC005620, Z93244, AC004383, Z99716, AC003982, Z83826, AL022721, AL049713, Z98200, AL096791, AL049869, M22970, AC002126, U96776, AL096818, AL023575, AL035682, Z84481, AC000085, AC005793, AC004685, AC004890, AP000324, AC003010, AL035246, AC007225, AC006501, AF111170, AL021546, AC004678, AL031281, AL022311, AL035414, AC002072, AC006312, AL022330, M29930, AF067572, AB000876, Z49866, AC004181, AP000506, AP000695, AL049760, AB000882, AC012099, AP000696, AC005971, AF015720, AC007686, AC006543, U43572, AC006077, AC004036, AF006501, AL049653, AP000121, Z74617, AF118808, AL031431, D89927, AL133353, AC007387, AC005516, U85195, AF139658, AL031680, AL136168, AP000082, AC004692, Z84469, AC006512, AC009399, U47924, AL035659, AC004032, AC000025, AE000658, AC004796, AC004869, AF055066, AJ229041, AC007401, Z69705, AC006079, AC006058, AL008582, AP000252, AP000053, AP000168, AC005058, AC005619, AC004223, AL049561, AC006544, Z99129, AB023050, AL035461, AC004254, AF124523, AC005759, AC006125, AC004212, AP000512, U78027, AC006011, Z83822, AC004754, M84472, AB020696, AP000301, AF109907, AC005409, AP000113, AP000045, AC004585, AL035448, AL078638, AC005261, AC005089, AL050307, AP000212, AP000134, AC004941, AL021154, AC007237, Z94044, AC006930, AC005225, AL035422, AC002350, AF097485, Z73429, U95626, AL132668, AC004017, AL035400, AC007687, AC006992, AP000504, AR004690, Z95331, AC004674, AL109623, AL049590, AF196970, AC004131, Z68164, AL031904, AC005332, AP000031, AC005348, AC005940, AL135744, AC007226, and AL109963.
HWBEZ94	6790	856472	1 - 342	15 - 356	AA730448, AA631915, AF760850, AL221027, AL312614, AL038029, AA394283, AL889177, W58735, AL148840, AL708565, AL120719, AA494047, AW419227, AA632355, AA618531, N35135, AA513189, AL049630, AA525517, AA125758, AL037699, AA679336, AA670459, AL024474, AC005753, AC007130, AC006261, AL109982, AC006024, AL109758, AC005695, AC007160, AL022158, AC005015, AC002115, AL024507, AC005598, AP000303, AP000114, AP000046, AL050341, AC004929, AC005684, AC004695, AC006449, AL031719, U70878, AF196972, Z95115, AL020997, AC003093, AC002126, AL020995, AC005632, AL132987, AL035462, AC007016, AP000260, AP000099, AC005164, AP000036, AL133289, Z98047, AF001552, AC004703, Z94044, AL031447, AF118808, AC006360, AC004812, Z85986, AC004912, AP000553, AC008123, AC007878, AF152365, AC004526, AP000094, AC004125, AL135744, AC010349, AC007917, AC004414, AC004041, AL049843, AP001171, AC000025,

						AF141308, AL049650, AC004987, AC005071, AL031228, AC005618, AC005527, Z97634, AC004227, AL121769, AC007386, AC005089, AC006001, AC005924, AL035405, AC007057, AL049872, and Z98048.
HWBFE76	6791	769769	1 - 407		15 - 421	
HWBFG09	6792	625162	1 - 200		15 - 214	
HWBFL35	6793	722921	1 - 346		15 - 360	AI307391, AI866416, AI934536, H84364, AW380728, AA411978, AA411937, R56481, AA128370, AI000242, AW295845, AA373919, AI432666, AI432644, AI623302, AI431307, AI431316, AI431238, AI432650, AI431315, AI432653, AW081103, AI431323, AI432654, AI431321, AL047611, AW058275, AL042729, AI431235, AL134524, AL042655, AW193606, AL043166, AI431246, AL042853, AI590043, AI500714, AW151974, AL042533, AI872315, AI682915, AL042787, AI889208, AL135012, AI866786, AL042508, AL042842, AL042488, AL043089, AL043295, AI537677, AI494201, AI500659, AL042931, AI866465, AI355008, AI289386, AI815232, AI801325, AI500523, AI538850, AI887775, AI582932, AI923989, AI872423, AI284517, AI491710, AI500706, AI445237, AI491776, AW151138, AI889189, AI521560, AI500662, AW172723, AI539800, AI284509, AI538885, AI440263, AI889168, AI866573, AI633493, AI434256, AI866469, AI434242, AI805769, AI888661, AI284513, AI888118, AI859991, AI436429, AI866484, AI355779, AI889147, AI581033, AI371228, AI440252, AL046356, AI860003, AI610557, AL045327, AI242736, AL043321, AI828574, AI887499, AI539781, AI539707, AI559957, AW089557, AI521571, AI884585, AL042515, AI890907, AI445256, AI932620, AL041862, AI866488, AI432677, AI582912, AI623736, AI047675, AL040207, AI804505, AI815239, AI863210, AI866691, AW194509, AI926593, AI289791, AI469775, AI285417, AI927233, AI432656, AI521551, AI285439, AI654286, AI440238, AL042802, AI924051, AI567971, AI539260, AL045891, AI702065, AI885949, AI285419, AI866581, AI866461, AW074057, AI567953, AI815150, AI446495, AI952433, AI889191, AI867068, AI225248, AL043278, AI371251, AI358271, AI866510, AI798359, AI282249, AI698352, AI475298, AI371229, AI539771, AI923046, AI890472, AI371237, AL043091, AL045328, AL042551, AW151136, AL039390, AI671642, AI357664, AW151979, AI582944, AI440260, AI648567, AI500526, AI433157, AI474699, AI866458, AL047422, AI521596, AW192487, AW132015, AL080007, AI888665, AL048951, AW151132, AW193598, AI433160, AI955221, AW197139, AI366900, AI554821, AL042832, AI275175, AI440236, AL122101, Y17793, AL133053, AL133049, AL133076, AL133074, AL049423, U75932, AL133655, U30290, E13998, S36676, AL122049, AC004213, AL133084, AR055519, AL133070, AR034821, AL133051, AL022723, AL133607, AL133015, AL133608, AR015970, AL133020, Y14634, AF002985, U57352, AF126531, and Z69719.
HWBFL96	6794	708955	1 - 392		15 - 406	
HWBFLM58	6795	735701	1 - 367		15 - 381	AA830979.
HWBFLM78	6796	773289	1 - 544		15 - 558	



HWBFN30	6797	691611	1 - 262	15 - 276	AL031733.
HWBFY69	6798	754729	1 - 491	15 - 505	AL049636.
HWBFY88	6799	701904	1 - 134	15 - 148	
HWBGB08	6800	958611	1 - 194	15 - 208	AA747998, AI815031, N67227, C01451, AI223999, AA831672, AW297416, AI371399, AA994323, AW439548, AW235171, AA063573, AW339548, AI635436, AI823872, R33402, AI536057, AA825399, AF130247, and AF165138.
HWBGB47	6801	948714	1 - 290	15 - 304	
HWBGD16	6802	924830	1 - 600	15 - 614	AA287163, N47440, AA002012, AA431617, AA259159, AA091603, N33783, R60031, AL134088, AL134530, AL134519, AL119439, AL119484, and AL043147.
HWBGF15	6803	659687	1 - 236	15 - 250	
HWBG101	6804	915603	1 - 324	15 - 338	
HWBG113	6805	656308	1 - 366	15 - 380	
HWBG130	6806	691511	1 - 298	15 - 312	AA715873.
HWWAZ06	6807	933736	1 - 394	15 - 408	
HWWDI03	6808	922463	1 - 554	15 - 568	AI208828, and AI949453.
HWWEF06	6809	933697	1 - 605	15 - 619	AI564440, AI792916, AI952802, AI380089, H05684, AW130075, AA745681, AA256184, AC006129, AC007065, and Z97054.
HWWEN10	6810	961741	1 - 618	15 - 632	AA618155, AI924667, AI345256, AA804838, AA829199, AW022796, AI871940, AA578245, T03613, AA558134, AI149177, H94598, AI049999, AA364147, H86399, AA648605, AW028376, AI281622, AI254267, AI753969, R79396, T16147, AI282322, AA657808, AA984891, AI358505, AW268090, AA947352, AI640905, AI828721, AA196287, AA569206, AI744890, AA084148, AI434103, AI884404, AA449825, W27084, AA643768, W02419, AA367920, AW023390, AA825954, F16848, AI361401, C14724, AA489897, AW085626, W45215, AI002863, AI337612, R83710, AA608675, H83955, AC007793, AC003973, AF001549, AC005516, AC005231, AC009247, AC002544, AC002416, AL132987, AC002449, AL022320, U91326, AP000952, AC007981, AC004663, AC004812, AP000550, AC008018, AC005412, AC005288, U80459, AC016025, AC016026, AC007546, AC020663, AL049697, AC007066, AC005666, AP000356, AL031662, AC008132, AC008372, AC007845, AL080243, AC007263, AL049776, AC022517, AC004841, AC000134, AC006020, AC005257, AL022326, AF165926, AL132641, AC010849, AL021546, AF207550, AC005899, AC007565, AC005484, AC012627, Z83844, AL035400, AF124523, AP000221, AF111169, Z97184, AC005180, AC000353, AC005914, AC002091, AC004895, AL109963, AL031680, AL023879, AL022322, AC005067, AC007051, AC009516, AL109827, AC003002, Z73359, AC004055, AC004771, M57678, Z82190, AC007052, AC005740, AC007919, AC005488, AC002077, AC001231, AC004263, AJ246003, AF205588, AC005225, U80017, Z83856, AL117337, AC005574, AF196971, AC005520, AL031733, AC006023, AL031281, AL050341, AC004797, Y18000, AL109627, AL133245, AL031432,

					AC006947, AC005277, AP000248, Z99943, AL031005, AC004848, AC006014, AC004929, AC005089, AL109984, Z97056, AC005214, AC008123, AC005877, AC005017, AC005274, AC007993, AL035090, Z94801, AC004695, AC005529, AC006486, AL031295, AP000692, AL023284, AC006449, AC005409, AF196779, AC004106, L47334, AC007216, AL034402, AL135744, AC006274, AC005512, AC004805, Z85987, AC005822, AB004907, AL109758, AC004019, AC005399, AC004134, AC003982, AL121657, AL049569, AL133448, AL050318, AC005200, AC005081, AC004702, AL031311, AL035443, Z81008, Z82244, AC005837, AC005031, AF111168, AC005971, AL022240, U47924, AC007055, AC004922, AC005049, AL121825, AL049872, AF187320, AC003689, AL009183, AL021579, Z82198, AF068862, AC004612, AC007001, AF069291, AF049895, AL022233, AL034423, AC003029, AC005913, AC007114, AC007277, L47234, AC005844, AC005562, AF130343, AC005800, U91323, AL049795, and AF064858.
HWWEPS6	6811	951811	1 - 551	15 - 565	AL439704, AL377300, AA910231, AW297398, AA907716, AA287041, AL048499, AL934011, N95189, AW151979, AL037043, AL141406, AL336494, AL683157, AW081689, AL357672, AL045986, AL137476, AL080147, AF061981, AF007142, A21103, AL137478, AL133084, AR038854, AR055519, and AF054988.
HWWFA12	6812	968958	1 - 451	15 - 465	AW392670, AW363220, AW384394, AW372827, Z99396, AL119341, AL119396, AL119497, AL119443, AL119457, AL119324, AL119522, AL134902, AL134528, U46347, AL119483, AL134533, AL134527, AL119399, AL119335, AL119418, A81671, AR060234, AR066494, and AR069079.
HWWFK07	6813	951819	1 - 490	15 - 504	AC022517.
HWWFU42	6814	961739	1 - 325	15 - 339	AA936399, AL379676, AL119511, AL119457, AL783569, AA693331, AL800370, AL079794, AA128660, AL241678, AL468959, AL251221, AL043152, AL254715, AL491904, AL571699, AW090131, AL440238, AL868204, AW058233, AW080402, AW409821, AL524654, AL436429, AL582551, AL540676, AL690411, AL472767, AW149219, AL564716, AA427700, AL042382, AL557104, AL758437, AA769102, AA614517, AL690813, AL421662, N95566, AL244105, AL630927, AL814896, AL043168, AL046261, W46513, AW090387, AW081661, AL345688, AA421957, AL119399, AL040169, AL921132, AL564448, AL537274, AL687568, AA243996, AL038445, AL120706, AL118781, AL887775, AW167918, AL288328, AW162194, AW242197, AL636811, AL952433, AW236186, AW083572, AA190341, AA665669, AA743385, R41605, AW074199, AL573026, AL219380, AA464646, AL285514, AL584130, AL811811, AL538850, AL583567, AW079336, AL120736, AW168296, AL045903, AL680498, AL348777, AL335426, AL686749, AW176256, AW083111, AA830609, AL866465, AA831987, AL520897, AL042544, AL345013, AL499573, AL697359, AL273856, AW130129, AL921167, AA743354, AL440263, AW079432, AL043355, AW169213, AL525669, AA437338, AL280655, AW026905, AW410090, AL380723, AL119324, AL635079, AL473208, AL660903, AL925685, AW024185, AL120987, AL280756, AL299677, AL370322, AL440444, AW081383, R36363, AL68180, AL633061,

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HYAAB66	6815	463413	1 - 312	15 - 326		
HYAAC60	6816	731763	1 - 538	15 - 552		
HYAAD03	6817	923797	1 - 437	15 - 451		
HYAAD67	6818	664597	1 - 431	15 - 445		
HYAAD95	6819	920280	1 - 1417	15 - 1431		AW404921, AI769693, AI949630, AA813912, AI651987, AI762498, AW405307, AA465011, AI652520, AA432286, AW237204, AW341847, AI962755, AA814312, AI440085, AA428631, AW405306, AI866838, AA443988, AA455291, AA984896, AA748641, AI696088, T78905, AW050810, AW406430, AI084063, T78957, T96418, AI005501, AI352635, R11250, R02626, AW408158, R11198, R01685, T96502, AA767241, AA865672, AI383849, and AA299913.
HYAAF33	6820	915050	1 - 439	15 - 453		AA459128, AW245218, AI792687, N48381, W37954, R75759, and AF121858.
HYAAH26	6821	681251	1 - 438	15 - 452		AA834566.
HYAAH36	6822	947242	1 - 428	15 - 442		AL109847.
HYAAI55	6823	674591	1 - 243	15 - 257		N71364, N71313, and AA370184.
HYAAI67	6824	706512	1 - 252	15 - 266		AC006064.
HYAAJ36	6825	744792	1 - 401	15 - 415		AW303286, AI208356, AW341447, AW269000, AI215965, AI932361, and AI001927.
HYAAJ89	6826	678728	1 - 555	15 - 569		AW183775.
HYAAN31	6827	697590	1 - 547	15 - 561		AC002364.
HYAAO39	6828	599000	1 - 398	15 - 412		
HYAAR17	6829	662426	1 - 472	15 - 486		AC005076.
HYAAR95	6830	862585	1 - 676	15 - 690		AA764893, AI355333, AA826004, AI174651, AA847948, W45298, W45283, AI090334, AA502050, AI446601, AI282832, AA713716, AA847984, AW274349, AA789107, AA501784, AA714140, AA112458, AA579736, AA708678, AA570227, F17700, AA074265, AA789115, AW131034, Z93017, AC006312, AI031282, AC005480, AC005932, AI031283, AC005529, Z83840, AC006965, AC005031, AC009516, AI049576, AC007055, AC005237, AC005746, AI031587, AC006285, AP000512, AC002565, AI117330, AC004584, AI133382, AI031848, AI132712, AC005911, AC005971, AF090930, Z95114, AP000557, AC005837, AC007308, AC005409, U96629, AC005180, AF134726, AI024507, AI132992, U95742, AI031311, AC004019, AI035417, AC005777, AC006130, AR036572, U91328, AC007666, AC006539, AF111168, AC000052, AF196779, AC004531, U80017, AI096794, AI008582, AI121754, AC007216, AC005231, AP000354, AI049709, AC005225, AI022329, AI135744, AC004805, AC007993, AF001550, AC005043, AC004475, AI035683, AI109963, AC005412, AC004694, AI034420, AC005722, AI121825, AC004876, AJ003147, AI049830, AC005291,

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HYAAS08	6831	926017	1 - 299	15 - 313	AL590404, AI984168, AI915081, AW404543, AI242994, AA247480, AI500645, AW275432, AI733523, R72363, AI610243, R89560, AA595661, H81143, AA358064, AA487053, AI682899, AA730872, AI521042, AA935767, N94115, AA502673, AA484892, N26866, AI570067, AA845690, AI271693, AL048969, AA225141, AI635889, AI888017, AA199578, AA177130, AI216151, AI302917, R61887, AA720582, AI282488, AI292275, AA640104, AA669165, AW072963, W44797, AI307563, F00574, AI280535, AA372053, AA829565, AA507623, AI311796, AI866911, AI040051, AI751341, AI926104, AI889995, AI452836, AI302350, N24909, AL039471, AI500563, AA634786, AA493808, AA015948, AA054085, AA910125, AI521525, AA018207, AW020094, AI031759, AA085106, C15966, AA324108, AI523205, AA342029, AI969095, AA516242, AW117860, AL121174, AW008089, AA402129, AA452887, AA569235, AC004447, AC008115, AC008154, AC003109, AC005037, AL050318, AC005730, AF111168, AC006597, AC004796, AC002504, AC002349, AL022313, AL031432, AL049733, AC005303, AC004707, AF003626, AC006441, AC005339, AC005828, AL109628, AC007637, U07561, AC003013, AL008716, AL031433, AL031662, AF001549, AC004112, AC005015, AC004081, AP000402, AL049780, AL022721, AL050307, AC002357, AC005808, AC002059, AL022326, AC004104, AL133448, AC005231, AL035457, AC003010, U91326, AC002544, AC004033, AC006285, AB004907, AC009247, AC005500, AC005954, AC002351, AC004659, AC004673, AP000501, AC002036, AL009181, AL133246, AC008044, U82668, U91324, U80460, AC004125, AL096755, AL031657, AF217403, AC003108, AL035413, Z98743, AL035072, AC016025, AC004533, AC004590, AL031286, AC005410, AL024498, AC007371, AL034451, AF207550, AC006468, AC003695, AL035659, AL035420, AC005914, Z82976, AL023575, AC005325, AL031228, AC005358, AC004685, Z73979, AP001065, AC004491, AC002310, AL008637,
HYAAT50	6832	724047	1 - 572	15 - 586	

HYAAU42	6833	890595	1 - 640	15 - 654	AC007055, AC005632, AL049636, AC002472, AL022323, AC001228, AC004893, Z97632, Z98044, AC005841, AC005913, Z83840, AC005911, AC004950, AC003043, AP000557, AC005049, AC002077, AC005666, L40817, AC002546, L78810, L44140, AC004821, Z98941, AC004968, AC004019, AC005377, AC004139, Z95118, AC003007, Z98948, Z82201, AC007911, AC004525, AC004050, AF165926, AL139054, AC007688, Z68886, AC005280, AL031587, AC005874, AF134471, AC006076, AL035455, AC005326, AP007731, Z94721, AP000049, AC005082, AC002390, AC005154, AC004699, AC004099, AP000563, AF053356, AP000141, Z96810, AC007056, AP000311, AC007435, AC007664, AF003529, U96629, AC005328, AC004257, U75931, AP001068, AJ011930, Z93930, AF036405, AL133163, AL031295, AC006511, AL035422, AL035458, Z98051, AC004876, AF044083, AL049873, AC000090, AC002319, AC004500, AC004548, AL136295, AP000238, AL008725, AP000094, AP000211, AP000133, AC012384, AC006369, AC004009, AP000088, AC007845, AL035086, AC002420, AL049757, U93305, AL035695, AC004009, AP000088, AC007845, AL035086, AC002420, Z98172, AP000353, AL031311, AC006505, AC006251, AC020663, AC004000, AC009509, AC002553, AJ003147, L48038, AF064861, U79895, AC005212, AC006121, AC005220, AL049539, AC005179, AC004851, AC004650, AP000338, AP000216, AF196972, AC007686, AC005191, AC002054, AC004967, AC006538, AC006111, AC005907, AC004150, AC005796, AC005391, AC004842, AL096791, AL035696, Z84466, AL049830, AC006080, AL121652, AC004686, Z93848, Z97183, AC004913, and AC003665.
HYAAU88	6834	786666	1 - 595	15 - 609	AA078383.
HYAAU05	6835	934878	1 - 176	15 - 190	
HYAAU17	6836	662439	1 - 371	15 - 385	
HYAAU65	6837	630213	1 - 220	15 - 234	AI580869, and AI492476.
HYAAU36	6838	766694	1 - 675	15 - 689	W68830, W79652, Z82188, and AF077208.
HYABB23	6839	675659	1 - 516	15 - 530	AA165103, R66289, R65738, AA576361, AA225996, AI825399, AA557529, AA225997, AI934434, AI732388, AB000616, and AB000628.
HYABB40	6840	799572	1 - 531	15 - 545	AW080842, AI126237, AI738708, AI288602, AI200312, AA033525, AA070152, AA033526, AW293916, AA748547, AW182578, AA961647, AA808104, AA410505, AA884100, AI635980, T71568, AA580797, AI004853, AA975024, T82022, AI674097, AA988905, AL133609, AL137420, and Z94722.
HYABB96	6841	692653	1 - 295	15 - 309	W32758, AW026680, AB014536, and AF077226.
HYABC02	6842	919212	1 - 491	15 - 505	Z97988, AC005823, AC006441, AC004941, and AL034429.
HYABC58	6843	924677	1 - 453	15 - 467	
HYABE67	6844	822985	1 - 304	15 - 318	R27814, AI821365, N31533, and AF068302.
HYABE85	6845	697593	1 - 672	15 - 686	R59561, AA513678, and AC005037.

HYABG22	6846	811950	1 - 280	15 - 294	AA883214, F11291, AW402414, AA099843, AA215472, AW341298, AI298948, AL043290, and AB014566.
HYABL55	6847	678864	1 - 460	15 - 474	AW451063.
HYABP53	6848	971448	1 - 1437	15 - 1451	AW295244, AW383680, AA291031, AA836103, AA825935, AW383670, AW451843, AW383673, AA290625, AI377702, AI347054, AL119324, AI134524, AL119457, AI431323, AI119399, AW392670, AI432666, AL042544, AI432644, AI623302, AI431307, AI431316, AI431238, AI431230, U46347, AW081103, AI432677, AI432653, AI432654, AI432650, AI431353, AI431328, AI431235, AI431312, AI431321, AI431315, AI432655, AI431310, AI431246, AI431231, AI431257, AL119443, AI431347, AL043003, AL119484, AI432657, AI431247, AI431354, AL042729, AL042533, AI431350, AL119439, AI431318, AW384394, AW363220, AL042931, AW372827, AI791349, AW129223, AI432661, AL134153, AL042655, AL042842, AL042508, AL042420, AL042853, AL119319, AL119418, AI431314, AI863305, AL043166, AL042832, AL047611, U46351, AL045327, U46350, AL135012, AI492510, AI492519, AL119391, AI432643, Z99396, AL042802, AI432675, AL042741, AL119497, AW128884, AW128900, AI431337, AL119363, AL042787, AL119355, AI432651, AI432647, U46349, AL042515, AL119522, U46341, AL119444, AI142134, AL119483, AL043295, AW084068, AL134132, AL119396, AI432674, AL134530, AL134519, AL119341, AI431330, AL134531, AL037205, AL119401, AL134527, AL134528, AI431308, AL043147, AI431243, U46346, AL119335, AL119464, AL043091, AI431248, AI432649, AL134533, AI432672, AL040207, AL042542, AL119496, AL042488, AI432665, AL134538, U46344, U46345, AL045328, AL043089, AI431241, AI284508, AL046356, AL043321, AI561182, AL042614, AF019249, AR066494, AB026436, Y17793, AR060234, AL133074, AL133053, AL133049, AL133076, AR054110, A81671, AL133068, AL122101, and AR069079.
HYABV14	6849	956236	1 - 574	15 - 588	AA282390, AA278249, AA488762, AA489734, AA482174, AW134842, AI762326, AA807226, AW082334, AA278706, AA724066, AA521424, AA909178, AA831579, AI131560, AA872215, AA993920, AI243205, AI524170, AA972085, and AI017999.
HYACG89	6850	724923	1 - 505	15 - 519	Z33538.
HYACI15	6851	674268	1 - 292	15 - 306	
HYACI18	6852	665720	1 - 568	15 - 582	N91098.
HYACI64	6853	929756	1 - 511	15 - 525	AI248214.
HYACI95	6854	746317	1 - 519	15 - 533	AI660312.
HYACI53	6855	727948	1 - 702	15 - 716	R00426, H69800, H69804, H69043, H61839, Z98884, and AL109628.
HYACF71	6856	760102	1 - 551	15 - 565	H06009, and R20240.
HYACEI1	6857	966482	1 - 478	15 - 492	AA226164.
HYACD06	6858	974495	1 - 370	15 - 384	N27362, N23649, AA601503, AA425283, AL048969, AI355572, AA524604, AA595661, AI114869, AI310670, AA640305, AI037067, CI5966, AI521525, AI732720, N68677, AW270287, AI272246, AW272815, AI086603, AI224583, C06151, AA535558, R22196, AI754064, AA559219, and AI017999.

AA324108, AA489390, AW419201, AI926102, AA679794, AA669225, AL613459, AA730872, AA493464, AI702049, AA369494, AI349130, AA525423, AW021105, AL134338, AA514937, T49381, AI791457, AI732501, AA831714, AA526415, AA862035, AA491827, AW276968, AI547110, AI061313, AA526542, AA664963, AA382435, N95424, AI275989, AI254267, AA568303, AW410844, AI523205, AA601376, R43468, R23873, AA904275, AA582080, AI076729, AA610381, N27737, H37968, AL121039, AI986101, AW085751, AA199578, AI114494, AA847504, AW103990, AW275788, AI065031, AA708751, AW419209, AW302705, AA761606, AI751341, AC004134, AC004099, AF207550, Z97056, U91326, AC004686, AC005730, AL031587, AC005911, AC005089, AF038458, AL078593, AL121603, Z97054, Z83840, Z86061, AC005755, AC006965, AC005839, AC004929, AC005914, AC006001, AC005280, AL008582, AL096791, AL034555, AC005500, AC003006, AC005546, Z83844, AC004583, AC004755, AL049766, AC006536, AL035089, Z98051, AC006942, AC007731, AC005519, AC004890, AF042089, AC006251, AC003029, AL109984, AC005082, AC005399, AC005800, Z97183, Z95113, AC000094, AL035422, AC010077, AP000557, D88268, AL080243, AC005225, AC002470, AC005277, AL023575, AC007226, AC004542, AC005913, AC006121, AB023048, AL022316, Z98304, AC007686, AC005696, AC004893, AL031433, AC002375, AL133353, AL021578, AC007666, Z93930, AC004531, AC005067, AC003982, D87675, AL031005, AL109758, AC000003, AL031670, AL050308, AP000031, AC005666, AC005726, AC006160, AL031659, AC007546, Z93241, AC007406, AC007688, AC007283, AL049795, AC005335, AC008372, AC005011, AC005531, AL031281, AC005971, AL024507, AC005484, AC004913, AC006088, Z85986, AL020997, AC004139, AL049777, AC002395, AC005921, AC005372, AC004865, AB001523, AL022302, AL009183, Y18000, AP000135, AC005632, AL049569, AL021391, AC005081, AL022476, AC009946, AP000505, AC007021, AC005086, Z15025, AL133448, AL022726, AC005944, AC004762, AC004150, AC009516, Z93244, AC005829, AC007030, AC005207, AC005288, AL021707, AF129756, AL022322, AC005257, AC010170, AL031255, AC006515, AC007371, AF134726, AC006241, AL121595, AL035460, AC005841, AC006162, AC004821, AC005972, AC006111, U72788, AL049539, AP000703, AC002314, AC008115, AC004983, AL109827, Z86090, AL035423, AC020663, AP000563, AJ011930, AC008273, AF047825, AC006064, AP000556, AC005015, AL139054, AC006480, AL031845, AJ003147, AC004685, AL096774, AC005932, AP000502, AL135744, AC006468, L78810, Y12855, AC007227, AC007151, AP000692, AL033527, AC004598, AL022723, AL109952, AP000555, AC004999, AC004895, AC003010, AC000052, AC006538, AC006511, U91322, M63543, AF165926, AC004587, AL031120, AC005041, AC012627, Z49236, AC004953, AC005377, Y14768, AB032485, AC006581, AL031680, AC005815, AP000140, AC006958, AL022336, AL049776, AL031282, AL031602, AP000354, AC005037, AF030876, AF111168, AC004263, AL023694, AC007676, AL034429, AC002045, D87008, AC003969, AP000226, AC000120, AC005940, AL021453, AL035086, I178027, Z73420, AC002425, AC004019, Z95115
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HYACC03	6859	923525	1 - 709			AF196969, AL109798, M89651, AL031589, and AC004477.
HYABB43	6860	800006	1 - 449		15 - 723	AA179370, and AA464124.
HYAAY57	6861	734463	1 - 430		15 - 463	AA131782, A1279457, A1459300, A1887969, and AC010175.
					15 - 444	T66305, AA886512, F09927, AA749328, AA815166, A1475828, AA648819, AA651977, AA953511, and AA741442.
HYAAV45	6862	717479	1 - 530		15 - 544	W88974, and AC004582.
HYAAU65	6863	909956	1 - 581		15 - 595	T81523, T98761, AL080117, AB023176, and U14103.
HYAAT55	6864	731420	1 - 398		15 - 412	T98379.
HYAAT39	6865	929758	1 - 447		15 - 461	R62243, A1298594, H00843, AA400786, AW453087, W69160, AA485564, W57903, A1810717, A1860626, R69650, and R69664.
HYAAN84	6866	782838	1 - 802		15 - 816	AA464831, AA180467, AA505048, AA449184, and AC012083.
HYAAL49	6867	973089	1 - 479		15 - 493	
HYAAL41	6868	887395	1 - 622		15 - 636	AW392670, U46347, AB026436, AR066494, AR060234, A81671, AR054110, and AR069079.
HYAAL19	6869	668338	1 - 922		15 - 936	AA082707, AA081874, A1201257, AA489677, H22947, A1269725, N63194, H11596, F04937, R39853, N63182, R05455, and AC005070.
HYAAK77	6870	887044	1 - 765		15 - 779	R84433, H83979, and AA017024.
HYAAK74	6871	765252	1 - 510		15 - 524	R93968, W93000, and AL109613.
HYAAJ03	6872	923526	1 - 434		15 - 448	A1092745.
HYAAF78	6873	773433	1 - 467		15 - 481	H01888, R93377, AL110203, Z83843, and AC004386.
HYAAD24	6874	677019	1 - 550		15 - 564	H63893.
HYAAC24	6875	677010	1 - 675		15 - 689	AA075368, AA073369, AA559324, AA804735, A1336026, A1114694, A1732327, AC007406, Z69364, D87009, AC004815, AL031257, AC007263, and Z83844.
HYAAB40	6876	841969	1 - 631		15 - 645	AA497098, and AC006023.
HWWEW1	6877	965434	1 - 648		15 - 662	W38418, W38417, AW362370, A1368729, A1523296, AA548224, AA868898, A1653483, W73847, AA558195, AA700476, A1828445, AW305153, AA548241, AA707354, W69719, W73703, AA164647, A1539088, Z19840, A1752812, A1752779, AW262145, W38359, A1399680, AA164646, R71097, A1073454, A1871525, F09131, A1686475, AA917430, AA372471, A1811402, R71445, AA418958, A1695645, A1242956, AA385654, A1304631, A1597928, AW362391, and A75407.
					15 - 437	AA553392, AA526829, A1023375, AC008372, AC005839, AF111168, AC005288, AC007371, AC004520, AC000353, AL031733, AL022163, AL022320, AC005756, AC004983, AC004707, AL121652, AC002300, AL109984, AC006581, AC004966, AJ003147, AC005510, and AL031276.
HWWEW06	6879	933690	1 - 415		15 - 429	AW452648, A1249134, AA831307, AA504653, AW182255, A1468242, AW444889, H14382, T33198, AA731107, F37077, R99416, W46344, W05246, A1632386, A1521519, AW150858, and AF151907.
HWBGG82	6880	779081	1 - 665		15 - 679	N73897, and H84937.

HWBGF04	6881	927284	1 - 477	15 - 491	AI338804, and AL120936.
HWBFF46	6882	800638	1 - 1783	15 - 1797	AI791349, Y17793, and AF064854.
HWBEG18	6883	909798	1 - 940	15 - 954	AA906863, AW408789, AW452373, AA352977, AA732349, AI269653, AI492098, and AB020653.
HWBEF69	6884	754328	1 - 506	15 - 520	T85049.
HWBEE25	6885	677660	1 - 520	15 - 534	H46563.
HWBEA06	6886	934820	1 - 361	15 - 375	AA641774.
HWBDU71	6887	835888	1 - 521	15 - 535	AA502126, AL109939, AC004859, AC008078, AC005951, and AF002223.
HWBDU58	6888	735774	1 - 930	15 - 944	H20642, AW294637, R60622, R25933, and Z74739.
HWBDS59	6889	743462	1 - 768	15 - 782	W94699, W88759, W88744, W88864, AI081615, AI903841, AA176310, H81217, AW090258, N73198, N58667, N48499, AA359586, W25203, R81022, AA345015, AI940407, AA113397, AA215919, AI807163, R95799, H37844, R87151, AA630583, T71499, N77311, W88840, H66405, AA309734, AA026675, AA385486, R87079, AA315010, W37275, R01782, Z71183, AL050254, A85213, and AF129537.
HWBDS12	6890	971872	1 - 430	15 - 444	AI189929, AI300829, AI829939, AW452299, AI188478, AA651825, N42191, W37646, AI002523, AI672667, AI344390, AA948467, W37382, AA831436, R11180, AW191839, AA287646, AA845191, AA835036, AW196619, R95793, AA502473, AA480612, AA704742, R11179, and AF201951.
HWBDR82	6891	779002	1 - 469	15 - 483	AA905379, T91925, and AC000386.
HWBDQ58	6892	735769	1 - 731	15 - 745	T81870, and N52370.
HWBDL82	6893	728805	1 - 647	15 - 661	AW247455, H10647, T80026, AA322636, AA663768, H39049, R15783, AA203493, W78783, AF070594, AF033827, and AF022729.
HWBDK08	6894	958956	1 - 370	15 - 384	AI917114, AI873737, AA664124, AL039309, AW161459, AW161879, AI191343, AI003797, AA936548, H24953, AA715508, AA504951, AA524846, AW243945, AA728861, AA664248, AW275432, AA525041, AA715351, AL043745, AI805261, AI246061, AW069227, AI246192, AI880889, AI865980, AL134216, AI634187, AI457313, AL138299, R95030, AL031281, AC002395, AC007656, AC005519, AF139813, U85195, AC005274, AL031767, Z97054, AE000658, AC004228, AC007564, AL121603, AP000692, AC003041, AP000500, AP000503, AL031311, AL031680, AC005562, AF111168, AL079342, AC007938, AF111169, AC005529, AC006449, AL078615, AL049699, AC006115, AC007684, AL035460, AC005291, AL132712, AC005037, AC002312, AC004859, AC006254, AC007216, AC005722, AL109865, AC006121, AF111167, AC005969, U91318, AC006317, AL031282, AF134726, AC006480, AC004526, AC007376, U91327, AL031848, AJ011930, AC005520, AL109798, Z84469, AC004230, AF060568, AL122020, AP000193, AL109827, AC005899, Y10196, AL035427, AP000117, Z95152, AP000502, AC002120, AC004884, AL031667, AL049843, AC005730, AL021397, AL022238, AL132777, AL049830, AC005632, AC005180, AC002978, AC005839, AC007384,

HWBCV48	6895	721010	1 - 404	15 - 418	AP000462, AC007066, AC009247, AF107258, Z86061, Z95114, Z85987, AC005067, AC007666, AC005527, AC000111, AC000082, AC006441, AC009464, AL031594, AL049697, AC004491, AL080243, AB017654, AL022316, AL031670, AC004968, AC005031, L78810, AC002314, AL049759, Z93016, AL121877, AC005598, AL096701, AL034548, AL049872, AC005280, AC002073, AC005666, AC004668, U80017, U82828, AC004583, AC010205, AD000092, AP000553, Z98946, Z85986, AC005531, Z84480, Z98884, AC005972, AC004895, AC006285, AL109627, U02051, AC003982, AC005036, AC005011, AL117694, AC006162, AL035686, U63834, AC006071, AC006241, AC005288, U95737, AL034417, Z98051, AC006080, AC002477, AP000311, AC005924, AC005099, AC002470, AL009181, AF047825, AF048727, AL049829, AC004936, AL049569, AC006344, AC007199, AC002299, AP000696, AC004755, AC005089, AL035422, AC005755, AC002456, AC004605, AC004129, AC004134, AC005399, AF053356, AL049576, AC005154, Z86090, AC006538, AL096791, AC004000, AL021155, AL022323, AL109628, AC004963, AC004659, AF129756, AC005488, AC005251, Z98200, AC005247, AC005736, AL022326, AC006360, AC004967, AL031589, AC005094, AC005412, AP000096, AL009031, AC006211, AP001052, AC006117, AL022313, AC005324, AC007386, AC002326, AC002365, AC006160, AC006322, AC005225, AC006026, AC006455, AC007546, AC004598, AL031295, AP000504, AC006388, AC009330, AC005484, and AC005914.
HWBCV48	6895	721010	1 - 404	15 - 418	AA213930.
HWBCU06	6896	935028	1 - 505	15 - 519	AI738409, AI359532, D78803, AA595178, AA587092, AW135877, and AC000120.
HWBCS08	6897	909031	1 - 548	15 - 562	AA197234, AL119641, AI132948, AB029036, AF119043, and AL035410.
HWBCH41	6898	868342	1 - 356	15 - 370	AA279024, R10600, and AC006323.
HWBCD20	6899	669472	1 - 624	15 - 638	T78846, and AF007131.
HWBCA08	6900	958957	1 - 550	15 - 564	T12632.
HWBBY86	6901	637734	1 - 491	15 - 505	AL096791.
HWBBV52	6902	726509	1 - 450	15 - 464	N32962, T87837, and AL021938.
HWBBU10	6903	964237	1 - 387	15 - 401	L25504, AI370343, L25228, AP000339, and AP000217.
HWBBT71	6904	760176	1 - 398	15 - 412	N44984.
HWBBR45	6905	887686	1 - 384	15 - 398	AA501578, AA927092, T94866, AA098829, R88888, AA199616, T65291, AL282336, H93144, AA632548, AA199631, AA780797, H86264, T90248, AA610420, AA772570, AA558060, AA804962, AA279427, R38154, AA161083, AA513293, AW074398, AA862173, H69580, AI053434, AI053816, AI054246, AA680211, AI824562, AA620425, N25296, AI963095, AA483034, AA834755, AA563818, AA908349, AI286264, AA613851, AA654771, H86301, R97634, AA847984, AA310879, AA732481, AI053429, AA583955, AA877817, H50727, AA747480, AA491284, AA574110, AA533725, H69640, AI312149, H85616, AW274349, T92445, AA521399, AA703707, AA649484, AA167673, AA632868, AA714595, AA649542, AW303196, AA603156, AW301350, AA554319, AA401657, AA775940, AA654627, AA661948, AA310868, AI561335, T71030, AL079843, AA837058, AA503258, H81733, AA810370, H09313, H86860,

					AA825357, AA325699, AB357551, AI284640, F36273, R67504, AA100372, AA678436, AI471481, R97934, AA156538, AW301818, AI469172, AA709005, AW276435, AA284179, H71827, AA169697, N77729, AA434388, AA985357, AI051526, AA610491, AA947370, AA831599, AA747276, T55213, AA806602, AA346510, AA333632, N76873, H69171, AA720682, F17518, AA916371, AA190613, AA745410, AI830390, F04987, AW407578, AA229650, F30933, AW276700, R29129, AA230119, AI278997, AA831388, AA229931, AA176114, AL041733, AI110770, Z30983, AL031280, AL020996, AC013248, Z97630, U02048, Z85987, AC005839, AC006050, AC003965, I15549, AC005488, AC004234, AC004382, U14689, D14813, AC005245, AC004228, AF002991, AC005790, AL031056, AC006013, AC004770, AF108083, AC006965, AC005486, AC008984, AC006014, AC005008, AC000025, AC005527, AP000553, AC009516, AC005529, M87918, AC005694, AC004217, AC002543, AC005137, AC007458, M88282, AC007688, AL121756, AC007043, AL049570, AC000951, AC000387, AC004041, AL035072, AC002122, AC005031, AP000517, Z85999, AL121655, Z95329, AC005193, AJ246003, AL035407, AL034371, AL034348, AC004167, AC004999, U80017, Z95400, AL022160, AP000557, AL031664, AB023054, AC007773, AC006548, AC004990, AF129077, U89335, U89336, AB020869, AL031595, AC004584, AL035420, AL096763, AL031447, Z74739, Z83846, AC003015, AC004879, Z84572, AL035410, AL024505, AP000949, AF165147, AL049873, AC006101, AL117344, AC007676, AC010722, AC009721, AC002480, AC007304, AC006112, AC004152, AC006006, AC005303, Z97352, AL109754, AL132987, Z98258, AC004496, AL121925, AC010382, AL023284, AL135744, AC005069, X78081, AC005204, AC000080, AC000090, AC005072, AL031675, AC007421, AP000502, Z82201, AF064862, AC006026, AF134726, AC007878, AC006511, AL031123, AC004646, AC000044, Z80901, AC000007, AC000034, AL031662, AC005166, AC000159, AL034451, AC004130, AL021392, AC007064, AC001231, AL096829, AC004687, AC002487, AC007091, X79699, Z83819, AL034420, AL023807, AC009263, AL117355, AL078621, AC021092, AC005787, AL078598, AF126483, AC005246, AC002072, AL009181, AL035684, AP000567, AC009891, AC002470, AP000350, X60653, AF129756, AC005668, AC001530, AC006354, AJ223364, Z81450, Z82176, AC004652, AF195638, AF137396, U51281, AC002508, AC002077, D86996, AC004186, AC005202, AC004030, Z68326, AC003050, AC005523, AC000041, AL021546, X66401, AF017732, AL031732, AL031391, AL035209, Z98046, AC005755, AC005350, AP001051, AC005923, AL080272, AC007038, AL031906, AP000159, AP000018, AC004522, AP000359, AC005228, AC006596, AC006146, AL031286, AC002301, AC005102, AL078476, and AC012380.
HWBBQ22	6906	861613	1 - 700	15 - 714	AA252664, AA593956, AA923113, AA551870, AI640612, W32234, AI220856, AI202821, AI199482, AI572009, AI815979, AI878998, AI879497, AI309256, AI885030, AW008397, AI816062, AW054852, AW007352, AI141037, H71578, AI693593, AA642443, AI197973, H01948, AA513683, AA283774, AA025347, N48184, AA293644, AA044813, AI660034, H89912, AA318740, R34586, AW293033, H13523, AI245242, and AF041429.

HWBBN86	6907	785313	1 - 535	15 - 549	R97917, R97918, H57950, and AC003999.
HWBBM02	6908	919423	1 - 508	15 - 522	AA587133.
HWBBL57	6909	868349	1 - 416	15 - 430	AA559030, R16068, and T72674.
HWBBL03	6910	923691	1 - 455	15 - 469	AA565820, and AA420538.
HWBBF60	6911	740125	1 - 351	15 - 365	R38327, and AI470403.
HWBBE52	6912	868358	1 - 449	15 - 463	AW183158, AI743674, AW170591, AI244986, AI336219, AI285158, AW135808, AA612970, N52534, T72657, AA932859, AA861691, AI868903, AW024446, AI760918, and AI783670.
HWBBD23	6913	675360	1 - 497	15 - 511	W56858, AB023145, and AB028449.
HWBAX77	6914	771958	1 - 526	15 - 540	H00548, and Z69648.
HWBAT83	6915	780976	1 - 412	15 - 426	M78523, H84125, AA013441, AA017681, H86611, AA651763, and AA873021.
HWBAS96	6916	796126	1 - 491	15 - 505	R06345.
HWBAR29	6917	690422	1 - 621	15 - 635	N36225.
HWBAQ71	6918	944080	1 - 458	15 - 472	AA078851, and AW237409.
HWBAQ02	6919	919351	1 - 519	15 - 533	A1221469, and AA883558.
HWBAO50	6920	724135	1 - 390	15 - 404	AA215799, AA523695, AI306717, R99076, AI915081, H29914, AA484892, AL045476, AI709174, AA582746, AI370170, AW272640, AW392414, AI130709, AI536858, AI537995, AA573000, AI131261, AA315361, AA458573, AI814682, AI291439, AW079737, AA984920, H80935, N69548, AA469441, AW265155, R87135, AI471455, AW190277, AW148775, AL046193, AL044340, AI687343, AA297776, AW302670, AW419389, AA429481, AI873627, AA078137, AI417586, R94436, AA298771, AI476049, AA657910, AW089016, AW084173, AL037927, AA662989, AA405798, T40629, AA568314, AI376454, AA515723, AA654482, AA837771, AL031428, AC006312, AP000501, AC006480, AC007225, Z93241, Z98946, AF064859, Z95115, AC005049, AF109907, AC005058, AC002477, AC004820, AF196969, AL121757, AC006101, AC004963, AL035422, AC005006, AL049712, AD000092, AL121603, AC004941, L78833, AC005924, AP001050, AL035086, AC007040, AC004025, AC004231, AP000312, AC005274, AL031668, AC000075, AC004491, AC004796, AL049835, AF006487, AF027974, AC004967, AC007878, AL031664, AL035071, AC002369, AC005823, AC005736, AP000356, AL049759, AC004656, AC004878, AP000503, AF165926, AC002544, AC006947, Z85987, AC004653, AC005696, AL139054, AL021394, AC003684, Z97630, Z85986, AF030453, AC005041, AC004883, AC006536, AC001228, AC005237, AF134726, AL109854, AL022322, AC005190, AL034423, AC003101, AC004526, AF129756, AL109984, AP000193, AP000045, AP000113, AC005800, AL022311, AF045555, AP000050, AC005509, AP000504, AL109623, AC005722, AC007559, AC005088, AC007546, AC004815, AP000117, AC004079, AC002312, AC005666, AC000059, AP000299, Z98272, AC005202, AP001052, AL008730, AF027390, AL049692, AC006057, AC005231, AC004217, AP001053, AC005081, AC005899, Z95331, AF038458, AC002126, AL034351, AC006270, L48038, AC005189, AC003004, AL023575,

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HWBAO38	6921	709490	1 - 486	15 - 500	H59128, and H47298.
HWBAK65	6922	747731	1 - 503	15 - 517	AI359877, H09144, R44298, R51016, R50773, AI074576, AA035771, AI934373, T52471, H10009, R31770, AA397967, F04627, AL047188, AL042009, AL039390, AL046681, AL046137, AI049726, AA598862, AI249936, AI672187, AL042551, AI446483, AL045503, AW337394, and AC007688.
HWBAJ13	6923	975117	1 - 1792	15 - 1806	AI431351, AL119324, AI432644, AI623302, AI431354, AI431323, AI431353, AI431347, AI432653, AI431230, AI431328, AI432654, AI432655, AI431310, AI431312, AI492519, AW081103, AI432677, AI431337, AW128900, AI432661, AI432674, AI432675, AI432672, AL119319, AI432651, AI432647, AI431254, AI431241, AI431330, AI431243, AI431357, AL119457, AI432650, AI431248, AI431255, AI431345, AI432649, AI432665, AI431307, AI431346, AI431316, AI432662, AI432676, AI432673, AI432658, AI432664, AI431340, AI791349, AW128846, AW392670, AL042544, AI431238, AL119399, AW372827, AI431308, AL119443, AI432657, AL119341, AW128897, Z99396, AI431247, AI431751, AL119355, AI432643, AL119363, AL119444, AI492510, U46349, AL037205, AW384394, AW363220, AI432645, AI431231, AL119497, AI431257, U46351, AL119484, AL119391, U46350, U46347, U46341, AL119483, AW128884, AI431350, AI492520, AI42131, AI431318, AL134920, AL042433, AL119439, AL119522, AL119396, U46346, AI431235, AL119335, AL042984, AI431321, AI431315, AI492509, AL134902, AL119401, AL134536, AL119464, AL134525, AI431246, U46345, AL119418, AL119496, AL134538, AL042614, AW129223, AL042450, AL043019, AL042542, AL042965, AL042975, AL043029, AL042551, AL042729, AL043003, AL119304, Y17793, AR066494, AB026436, AF019249, AF064854, AR060234, AR054110, A81671, and AR069079.
HWBAH72	6924	766073	1 - 457	15 - 471	R53373, and R19776.

HWBAH16	6925	661664	1 - 591	15 - 605	N76551, AI051605, and AW450879.
HWBAF43	6926	715111	1 - 587	15 - 601	H69407.
HWBAF09	6927	625401	1 - 265	15 - 279	AA255938.
HWBAC02	6928	919559	1 - 438	15 - 452	AI129592, AW377636, and AW390415.
HWAGV04	6929	926759	1 - 482	15 - 496	AA169855, and AC004069.
HWAGQ02	6930	953013	1 - 675	15 - 689	AI829939, AA651825, W37382, AI188478, AI672667, AI344390, AA845191, AA835036, AA831436, AA948467, AA704742, AI002523, AW191839, AA287646, T62849, R95793, T90287, AW191840, R11180, AI189929, AA988042, AA99818, R94937, AI300829, AW196619, AA886287, AA938191, W37646, AW089814, N42191, R95749, N74604, AW452299, AA502473, AA480612, R11179, AA703157, AW341475, and AF201951.
HWAGO42	6931	958373	1 - 561	15 - 575	AI738975, AL036481, AA232116, AI337371, AW138609, AI654432, H24091, and AC007250.
HWAFQ10	6932	961339	1 - 1031	15 - 1045	AA417827, and AA256655.
HWAFM60	6933	868436	1 - 608	15 - 622	AA258987, AL020997, and AC007193.
HWAFG12	6934	969605	1 - 403	15 - 417	AI831120, and AW152248.
HWAFE87	6935	949950	1 - 437	15 - 451	
HWAFD56	6936	868452	1 - 407	15 - 421	AA460146, and AI962568.
HWAFD10	6937	963323	1 - 402	15 - 416	AI453777.
HWAF47	6938	948858	1 - 346	15 - 360	AC002310, AC002119, AC005839, AL049569, AL035683, AL031594, and AC007382.
HWAF405	6939	930990	1 - 786	15 - 800	AI991703, AI650617, AI051377, AW206131, AA284515, AA287237, AI797889, AI245567, AA576442, AI660645, AI091867, AA251505, AI141021, and AI536674.
HWAEZ81	6940	868460	1 - 505	15 - 519	AI368732, AI244157, AA297666, TS7767, AA757426, AI814820, AI624528, AA664126, AI241705, AA130820, AC004985, D87675, AP000501, AL022320, AC005839, Z99716, Z81364, AF196969, AC005924, AL031291, U47924, AC005527, AL034549, AL023553, AF196779, AC005088, AC005779, AL050318, AC002310, AF031076, Z97054, AC005004, AF111168, AC004477, U95740, AC004796, AL033527, AC000353, AC005921, AC005529, AC002115, AC010168, AF003626, U63721, AC009247, AL035086, AC006512, AP000557, U80017, AC005015, AC007308, AC005519, AP000692, AF031078, AC005295, AC007263, AC005358, U62292, AC002470, AF030876, AC004686, AC005940, AC005702, AC004883, AC007055, AL096791, AL135744, L78833, AP000088, AC005280, AC002425, AC002300, AL121658, Z95114, AL022326, AC005017, AC007546, AL031276, AC007684, AC002565, AC006511, AC005874, AF134471, AC007227, AL031662, AP000555, AL109952, AC004024, AL034429, AC005632, AF109907, AL034420, AC002316, AC004859, AL050332, AC004655, AC005412, AL031255, AP000330, AC016830, AC005740, AC005231, AL031295, AC004841, AL080243, Z86090, AC005520, AC006480, AL049869, AC005971, AC005102, AC006441, AL035659, AC005666, AC004895, AC012384, AC004659, AC002504, AB023050, AC004765, AC002350, Z94802, AF001548, AP000067, AC005387, AC005911, AL035420, AC008044, AL049569,

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HWAEZ19	6941	874351	1 - 505	15 - 519		AA693960, AA773315, AA701937, AI640497, and AA679299.
HWAEU35	6942	887166	1 - 460	15 - 474		
HWAEI10	6943	838763	1 - 402	15 - 416		AA747537.
HWAEF25	6944	951965	1 - 876	15 - 890		AA258884, AI133088, and AA134634.
HWAEK27	6945	868494	1 - 566	15 - 580		AA663139.
HWAEK71	6946	931547	1 - 560	15 - 574		N43812, N28593, N42447, N25847, N42638, AA164284, and M94043.
HWAEK08	6947	958115	1 - 703	15 - 717		AI640322, H11674, AA481880, AI687453, T08591, AW408528, and AB018339.
HWADQ35	6948	868526	1 - 850	15 - 864		AW242308, AI718675, AA446440, AA639514, AA429990, D20149, AA446133, AW269686, AA446252, AA490572, and AI914301.
HWADO27	6949	682458	1 - 549	15 - 563		T83909, and R68586.
HWADN42	6950	713272	1 - 379	15 - 393		AI984550, and N79076.
HWADM84	6951	782685	1 - 730	15 - 744		H05351, AA826458, and AL137351.
HWADI46	6952	891149	1 - 252	15 - 266		R88163.
HWADE25	6953	677594	1 - 413	15 - 427		T70432, T83092, and W28247.
HWADD18	6954	665173	1 - 446	15 - 460		AL039706, AI744599, H19229, AI220556, AI954761, AI052561, AI992311, AL039705, R02726, Z40315, AI872336, W44986, AI521131, AW248932, AI032378, AI978572, AI950218, AI203399, AA858242, AI203400, and AR022159.
HWACZ56	6955	733002	1 - 312	15 - 326		AA056722.
HWACY70	6956	756888	1 - 540	15 - 554		AA127538, AA007643, AI702678, AA263149, AA285232, AI904448, and AW390105.
HWACS69	6957	774914	1 - 601	15 - 615		AA130132, AA826414, AW262702, AW069242, AA165524, AI922531, W81127, AI095845, AI424003, AI299901, AI557105, AI872483, AA088173, AA136051, AI216212, AA776540, AI383347, D20019, AI051093, AA405559, AA258314, H60707, AI168098, T65372, AI246309, H17966, AI572143, AA130119, H22958, Z39390, AW269492, F09402, R40023, F04748, F03710, AI619876, N90250, F02805, W94821, N66673, AA088630, AI419665, W31598, AI217531, R20768, R50838, AI378963, and AI890899.
HWACQ54	6958	729166	1 - 195	15 - 209		AA054175, AA018743, and AA015643.
HWACJ56	6959	733013	1 - 406	15 - 420		T81159.
HWACI46	6960	718711	1 - 526	15 - 540		T53843, and N77512.
HWACH03	6961	923374	1 - 415	15 - 429		AI051545, and T95620.



HWACD30	6962	691565	1 - 383	15 - 397	AI143085, W63738, and W61076.
HWABY68	6963	927387	1 - 416	15 - 430	AA242852, AI129391, AA743400, AI934605, AA252186, AA531278, AA705950, AA418351, AA834128, AA530987, AA252187, AW249796, AI377360, AI684366, R54388, H07875, AI289290, and AC006942.
HWABV67	6964	751409	1 - 504	15 - 518	N57896, and AC005232.
HWABV34	6965	868535	1 - 380	15 - 394	AI190781, AC005920, AC004531, AC006141, AL021391, AC004883, and Z93930.
HWABP20	6966	669486	1 - 370	15 - 384	T87470, and T85392.
HWABP19	6967	951277	1 - 433	15 - 447	AA535015, AA361063, AA361359, and AR035946.
HWABP02	6968	919442	1 - 448	15 - 462	AA766487, AA504639, and H83494.
HWABI13	6969	656767	1 - 678	15 - 692	AA258954, AA258920, AI251082, AI715090, AI674840, AI470431, AI223604, AW360896, AW021735, H12071, H84675, AI754271, AI755164, AI431434, AA283005, AI470437, AW104793, AA077786, AI309375, AA581903, AA420998, AA572874, AA421078, AW275425, F12561, AA468022, AI274252, AA770584, AL042853, AI889566, AA877932, H09744, AI298061, AI281909, AW008450, R61498, AA876445, AW169038, AA65021, AA579367, AI537041, AA001904, AI017251, AA169129, AA476397, AA431949, AI766906, AI886432, AW021583, AA191659, AA630451, AL048534, AA53624, AA918958, AW192065, AI382289, AC006441, M74492, AC007993, AF053645, AC004884, AL034375, AC005562, AP000349, AC002430, AC004477, AL049759, AC000039, AC005778, AF031078, AC007384, AC005015, AC006023, AC004890, AF030876, AL121653, AL121658, AL031311, AC005034, Z98044, AC003109, Z98744, AC005952, AC005678, AC005102, AC002996, AP000320, AC004881, AC009516, AC007263, AP000556, AC005800, AL034551, AC005993, AF050154, AF106656, AC007676, AF037338, AP000351, AL049776, AC006511, AC005912, AL117338, AP000555, AC004778, AC006101, AC002558, Z83841, AC005701, AC005933, AL022165, AL132774, AL080243, AC004815, AL035659, AC006953, AP000557, AL117258, AC004227, AC007565, AC004475, AC012083, AL096701, AC004662, Z97054, AC004167, AP000135, AC002404, AC018633, AL021155, AP000031, AC004656, AC006241, AC005829, AC004061, Y07848, AC005786, AL109627, AL031846, AL022323, AL133297, AL133245, AC006548, D88268, U91322, AP000553, AC004851, AJ229042, AC006582, AC003999, AC004596, AC003036, AF196779, AC006487, U73636, AL035423, U52112, AB014077, AC005081, AF053356, AC007707, AL049757, AC004099, AL031281, AF064863, AC004841, AP000697, AC001226, AL035458, Z95125, AL035684, AC005412, AC005871, AL031428, AP000694, AC005759, L42088, AL049766, AC007227, AP000345, AC005568, Z95152, AC004209, AC000379, AC008134, AC006581, L78833, AL031984, AC004647, AC006039, and AC004134.
HWABH68	6970	929275	1 - 200	15 - 214	AA708891, T84753, AA862842, AA906049, H62449, AI192606, AI697110, AI476751, H62426, AI270685, AA588738, AA770029, AI803894, AA548631, AI859177, AI696295, AI559322, AA622890, C75563, AI830046, AW014772, AI678463, T98662, AW243066, AA677245, AA369307, AI282884, AA614646, C75627, AI698074, AW303681, AI310008, AA508708, and

HWABG11	6971	949088	1 - 710	15 - 724	A66648, AW028517, AI492449, AA172063, N71710, AA312583, AI243139, AA259158, H08035, and AA214724.
HWABD52	6972	726510	1 - 398	15 - 412	AA195245, AA416793, AA44146, AA195430, AL040098, and AA443964.
HWAAAY79	6973	791452	1 - 462	15 - 476	N64316, R63682, and AA418089.
HWAAAY51	6974	973237	1 - 350	15 - 364	
HWAAAX48	6975	721442	1 - 519	15 - 533	H08515, AW451243, AI342965, AI916317, and AW173677.
HWAAW6 5	6976	779578	1 - 858	15 - 872	AA938191, AW089814, R96588, AW191840, AA988042, AA886287, AW196619, AA835036, R94937, AA999818, AA704742, AA831436, AA845191, AA287646, AA651825, AI188478, AW191839, W37382, AI344390, R11180, AA948467, AI672667, R95793, T90287, AI829939, AI002523, T62849, and AF201951.
HWAAQ76	6977	887772	1 - 987	15 - 1001	AA993487, AA969929, AA993756, AW023082, AW059828, AW161156, AI345335, AA715307, AI269862, AI364788, AI627988, AL036673, AL079963, AA225339, AI345005, AI698401, AI366900, AI860003, AI872423, AW268302, AW274192, AW072719, AW087445, AI783504, AI620284, AW162194, AL045500, AI866770, AI886753, AI824576, AI334893, AI306613, AI874166, AI670009, AA809974, AI890507, AI554245, AW071417, AI889189, AI890907, AI538850, AI623941, AW117882, AI624543, AW198075, AI345463, AI539153, AW302992, AI923989, AI433976, AI863382, AI917963, AI859991, AI434741, AL047675, AI349957, AI433157, AI554821, AI274507, AW151136, AI310575, AW130930, AI539771, AI371228, AI537677, AI340533, AI494201, AW160905, AW172723, AI500659, AI343091, AI815232, AI251221, AI801325, AL121270, AI500523, AL037454, AL042440, AI582932, AI284517, AI500706, AI445237, AI491776, AW151138, AL047422, AI521560, AI500662, AI926878, AI637748, AI520809, AI284509, AI284131, AW301513, AI889168, AI064830, AI866573, AL037649, AI633493, AI434256, AI866469, AL110402, AI805769, AI888661, AI284513, AI888118, AW083778, AL119863, AI250369, AI436429, AI889147, AW238688, AI440252, AI624154, AI699865, AI610557, AI686906, AI433037, AI828583, AA761557, AI783997, AI887499, AI923509, AL039086, AI863321, AW022699, AI340603, AI619502, AI677796, AI632408, AI886181, AI802542, AI352497, AW080700, AW168373, AW198144, AI620089, AA449768, AI288305, AI886123, AW118518, AI352326, AI348854, AI499285, AI570807, AW168485, AI933589, AW026882, AI635067, AL042628, AI923370, AW149925, AI537261, Z99428, AW163834, AI251485, AI445992, AI445990, AL119791, AI345745, AI702073, AI690748, AI340511, AI866465, AW191003, AI334445, AL040243, N33175, AI349645, AL036980, AI500061, AL039276, AW051088, AI349598, AI620075, R32821, AA641818, AI440263, AI633125, AL043981, AW269097, AW161579, AI038445, AW082113, AI698391, AW170635, AI917252, AI915291, AW152182, AI890628, AW083804, AI571867, AW302973, AW268060, AI473536, AI500588, AL045163, AI610667, AI345347, AL042745, AI445864, AI468872, AI973152, AI540754, AI866786, AI886192, AL036631, W74529, AI923046,

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HWAAAM30	6978	691878	1 - 465	15 - 479	AA034268.
HWAAAL70	6979	757035	1 - 698	15 - 712	AA651842, AI830925, AW270749, AI356943, H41232, AW236741, AI183844, and AA724467.
HWAAAI41	6980	712141	1 - 370	15 - 384	H71498, AA581460, AI873759, AA547947, AW179306, AA630672, AA610219, AL138329,

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HWAAF60	6981	751037	1 - 561	15 - 575	T27537, AW161408, AW163687, AI751466, AA325962, AI372642, AA210947, H23526, AA463392, AW163477, AA533225, W69511, AA190334, AA227416, R15328, AW246998,

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HWAAE31	6982	841973	1 - 352	15 - 366		AA251131, and AA775171.
HWAAE31	6983	935131	1 - 465	15 - 479		H54960, and AJ239325.
HUUDR34	6984	944903	1 - 646	15 - 660		N62033, N28254, H55465, Z83844, and X87671.
HUUCS12	6985	969325	1 - 675	15 - 689		T99881, T81169, and T99780.
HUUCJ02	6986	940813	1 - 776	15 - 790		AI033712, AI954084, AW167226, AI983520, AL041005, AI984573, AI432645, AA131336, AI564483, AA191629, AI907763, AW370258, AI679914, AA313042, AI679407, AI174699, AI890600, AW379481, AI623994, AI924918, W81030, AI683963, AA406281, AI056626, AA524116, AI807732, AA992422, AA308853, AI610539, AA653510, AI804538, AA653438, AI986456, AI500648, AW189915, AA708759, AI679802, AA176706, H81609, AA740782, R72705, AI125930, AA555116, AW173659, AA432282, AW363351, AW103616, AA176724, F37314, AA682225, AI208567, AA826560, AA308851, AA134257, AA770415, AI249986, AA346286, AI923040, AA428627, AW407257, R49324, AI022174, AA226672, AA386226, AA954017, AW316887, AA548185, AA430516, AA173054, AI378920, AA467744, C14715, AA324842, W46618, AW291665, H22297, AI952445, AA308852, Z38953, F27547, AI624769, AI688767, AI254198, H29271, T30886, AI984007, H58044, AA102260, H19121, AA174099, T64974, AI190377, U55980, AA313043, AA652594, T33556, AA588454, AA079766, T30885, AI289751, AA079662, AW386889, AA609230, N67209, AW130206, W81067, AA444161, AA053081, AI690803, AI080131, AA573007, F10793, T32048, AW275180, D54061, AI473281, AA026011, H60333, T39333, AA745903, T19224, AI908040, AW294394, AW367021, M78639, AI355669, AW298166, AW361250, R84893, AI908037, AA459844, H40828, D54504, AI908021, AI908008, AI699848, H81610, H66200, AA403067, T25950, T81632, T19550, R98063, D54002, AI925734, AI906757, R93365, AI250621, Z30252, AI909826, AI909824, AW369644, T04849, H22261, AW376366, R32768, AI908081, AA429079, AW403033, AA160093, R90873, AA326736, AI041263, D58524, AW389303, AL043881, AL046604, C04059, AA531508, AA128960, AL046006, T19252, AI907876, AW392242, AL042624, AW403808, AL045474, AL041886, H01570, AI363803, R78804, AL041872, T31059, H19603, AA228109, H24164, H12675, C15988, AI940088, AW381410, H44250, N48104, AA393629, AW367781, R28128, R23869, T58288, R72979, AA984062, AW374404, AW374385, AA242748, N44862, R88953, AI557267, H90121, AA323985, T64231, R90783, AA319598, H02821, AA410901, AL042059, C15711, R73195, R76234, AI829391, R98306, AW389265, AA305347, AW376369, AA295312, AI907282, AA309588, AA333617, W27031, H02380, AA320201, AI909838, AI909848,

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HUJDJ03	6987	922441	1 - 658	15 - 672		AA569288, and AA569185.
HUJDE05	6988	967231	1 - 555	15 - 569		AA393987, AW249982, AI377213, AI440471, AA668868, AI423208, AA922498, N49855, AA744680, AA232187, AA741266, AA830850, AA523735, AI023220, AA551426, AA130096, AI273697, AI470085, AI199436, AI889460, AI144114, AA806441, AI215922, AI028484, AI281030, AI735186, AI224934, AA809356, AI261472, AA809458, AA588859, AI524208, AA398075, F26431, AA826865, AI721076, H69575, H95065, AA988255, AI984011, AA368844, AI378424, AI936240, AI186572, AI963211, AA809442, W52780, AA744793, AA827659, H41598, AI493433, AI266572, N36218, AA130095, H62017, AA303699, AA261941, AA835915, F28374, AA602990, F26160, AI371682, AA872643, H62016, H84745, AA877236, N54430, AA574343, W52484, AA513394, AA559062, AI202007, N80053, AA010201, AA235462, AA292526, AI222768, AW246245, AI133447, H84833, H69596, and AB005815.
HUJCN12	6989	969331	1 - 545	15 - 559		C18813.
HUJBQ04	6990	926196	1 - 318	15 - 332		AW392670, AL119355, AL042984, U46349, AL119341, AL119319, AL119457, AL119324, AW372827, AL119483, AL119443, Z99396, AW384394, U46351, AW363220, AL119497, AL119484, AL119363, AL119391, U46350, U46347, U46341, AL119444, AL134536, AL037205, AL134538, AL042433, AL119439, AL119522, AL119396, U46346, AL119335, AL134902, AL119401, AI142131, AL043019, AL134527, U46345, AL134920, AL119418, AL119399, AL119496, AL134525, AL043033, AL042614, AL043029, AL043011, AL042544, AL042450, AL119464, AL042542, AL042965, AL042975, AL042551, AL043003, AL034429, AB026436, AR060234, AR054110, AR066494, A81671, and AR069079.
HUJBP01	6991	914512	1 - 459	15 - 473		Z66011, Z66010, Z55354, and Z55353.
HTYSK94	6992	501001	1 - 449	15 - 463		
HTYSK65	6993	500999	1 - 338	15 - 352		
HTYSK23	6994	575458	1 - 338	15 - 352		AI866971, AA420546, AA644090, AI087040, AW304580, AA825827, AA584527, T63954, AI270177, AA487226, H86725, AW022934, AI192440, AI669421, AA847499, AI124798, AA225890, AA836552, AL008718, AC005932, AL022336, AF207550, AL035587, L78833, AC004883, AC002565, AC005512, AC002115, AC005102, AC005829, AL021391, AP000103, Z93930, AC004491, AC004821, AC007055, AL035462, AC005519, AC006137, U95742, AC004817, U91326, AC006509, AC004659, AL049776, AL008734, AP000088, AL035423, AC007216, AC005914, AC002544, AL031983, Z84469, AC004859, AC003041, AC002126, AP000032, AC006552, AC000025, AL031602, AF134726, AC005527, AL109839, AC007731, AC008101, AC005500, AL035684, AL133448, AC004895, AL049872, AC004526, AL031295, Z98884, AC005071, AC006262, AP000045, AC005844, AF053356, AC004531, AL080317, AC002073, Z94056, AL049869, AC007387, AC005484, AL035420, AC003101, AC007011, AL135744, U91318, AL049766, AC007298, AC004815, AC016027, AC004967, AP000501,

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HTYND11	6995	965061	1 - 354	15 - 368	H63287, H83779, AA479904, AL301403, H72739, H03721, W58699, W80428, W69319, N75444, N75831, AA931805, AA976567, R69416, H20193, H27894, AA524259, AA776787, AI093933, N89605, AA976789, AA417821, AI077948, AA568684, W58105, AI184042, AA471035, AA159198, AI184456, AW000778, AI298398, AI207043, AI298093, AA976989, AI160353, AI198251, AI268758, AI352347, AI281960, AI268851, AI858974, AI125797, AI042070, AI272028, AI336185, AI125808, AI394538, AI140335, AI191334, AI356687, AA931904, AI279283, AI768190, AI279567, AI086220, AI191106, AI184383, and AA057072.
HTYNC04	6996	926906	1 - 379	15 - 393	AW009081, AA724726, and C01435.
HTYAA83	6997	537277	1 - 411	15 - 425	AA303105, AA584859, AA989182, AI811345, AA826320, AI523074, AI709307, AA634252, AA828053, AC006211, AF196969, AC004491, AC005037, AL109627, AC012384, AC002350, AL049776, AL031432, AL034420, AC004966, AC002558, AL121603, AC005899, AC005412, AP000692, AC005914, AJ003147, AC005512, AC005274, AL035455, Z98051, AC009516, AC005632, AC004477, AC004851, AC002404, AC003684, AC007055, AJ251973, AC007308, Z86090, AL022316, AL024507, AF001548, AL121655, AL049694, AL121825, AF053356, AC006538, AC009247, Z93023, Z93017, AC006312, AC005484, AC005932, AC004216, AC016830, AC007842, AC002302, AC004983, AF001549, AL139054, AL022476, AC005562, AC003010, AC007371, AB001523, AL033527, L47234, U62317, Z84487, AL022322, AL134448, AC004895, AC005102, AL049779, AC004033, AL031311, AP000553, AC006111, AL035659, and AC003042.
HTXSV06	6998	933377	1 - 523	15 - 537	AA570407, and U91323.
HTXSH08	6999	957886	1 - 880	15 - 894	AA411663, AI051223, AI051723, AA411664, AL043343, AI084824, AA704698, T99707, T99099,

HTXSC11	7000	965536	1 - 403	15 - 417	and AA091981.
HTXSA04	7001	926338	1 - 458	15 - 472	AA635858, A1420572, and AC000353.
HTXRS08	7002	957919	1 - 504	15 - 518	AA683094, and AC002299.
HTXRA02	7003	918089	1 - 352	15 - 366	AA937176, T97020, A1923659, AW089216, and H46012.
HTXQS11	7004	965084	1 - 617	15 - 631	A1932351, A1168608, and AW081230.
HTXQO07	7005	952064	1 - 342	15 - 356	A1038370, and A1954900.
HTXQM71	7006	869147	1 - 660	15 - 674	AA731476.
HTXQM07	7007	952067	1 - 431	15 - 445	A1695376.
HTXPPX72	7008	916162	1 - 965	15 - 979	AA251181, A1761000, A1128484, A1276232, AA251078, R11531, AA721210, R10456, A1364695, AW166309, and AA832036.
HTXPPV03	7009	922905	1 - 652	15 - 666	AA001407, and A1022312.
HTXOR95	7010	869249	1 - 578	15 - 592	T81624.
HTXOO15	7011	869261	1 - 435	15 - 449	AA772570, and AA229433.
HTXOO12	7012	872368	1 - 383	15 - 397	A1439548, A1824398, A1524088, AA809903, AA418732, AA625848, AA491295, A1399785, AA879121, AA738446, AA776396, AA463264, Z39342, AW246459, H19238, AA872635, AA418786, AA995381, AA463616, A1613441, A1192269, AA417678, U87803, and AF140507.
HTXOK51	7013	869265	1 - 513	15 - 527	AA164895, A1216978, AA470578, AA470574, A1151261, AB023165, A1023876, AC004859, AC006111, AC007684, AC002546, A1080317, A1121756, A1031775, AC004913, Z82178, AC007308, AC002470, AC000097, AC006547, and AC000075.
HTXNJ60	7014	869299	1 - 722	15 - 736	AA255981, and AC005229.
HTXNG04	7015	926992	1 - 886	15 - 900	AA700155, A1241528, R92115, A1051224, A1248652, A1248349, H80550, H80606, A1045388, A1680997, A1560952, W78724, and A1031708.
HTXNF11	7016	869300	1 - 592	15 - 606	H90484.
HTXNA19	7017	953848	1 - 884	15 - 898	AA872066, A1700737, H13313, T51880, A1458617, and R41292.
HTXNMZ01	7018	915250	1 - 304	15 - 318	AA078115.
HTXNMU37	7019	948611	1 - 702	15 - 716	H74136, H54178, H54603, AA526630, AW197983, A1986083, F25083, AA548968, AA492584, AA706631, AA192278, AA056619, AA487726, R32162, AA457685, AA613609, AA640797, AA481760, AA113327, AA282951, A1370337, F27234, F36360, AA467961, R31574, AA583381, AA191139, F27108, AA302943, AA082567, AW245331, A1300597, A1048296, AA113757, A1653465, AW409990, AA565957, AA854403, T74600, A1073724, A1417496, A1738741, AA936734, AA233462, AA936783, AA641336, AA838660, A1283329, AA182577, A1862213, AA111897, A1280500, R59728, AA653228, AA614864, A1421783, AW301712, AA101265, A1755227, A1860414, W31892, AW246579, AA074086, A158023, A1865375, R61358, A1568260, A1798292, A1419390, AA550837, A1609107, A1859368, AA373304, A1431442, AA745841, A1475297, AA419230, AW083918, A1830186, AW246558, AA164946, A1185856,



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HTXMR30	7020	869312	1 - 663	15 - 677	AI138731, and AI149649.
HTXMJ82	7021	841875	1 - 709	15 - 723	AW245527, AA452288, AA134389, R02507, AA160583, W20079, W15650, R88492, AA191171, AA305146, AA312380, AA353989, AA356238, Z45454, R10259, T53506, R88474, AA353467, AW401924, AA065025, AA133146, AA321117, T39247, AA321753, AA352107, AA359404, AA115720, AA356308, AA329808, T97388, AI632793, AA341639, R21692, T81231, AA425167, R84510, AI189655, R47188, AA628011, AF100761, AI050361, AC006049, AP000513, and AB023049.
HTXMC72	7022	875290	1 - 430	15 - 444	HT2109, and AC004686.
HTXLS08	7023	958357	1 - 1138	15 - 1152	AI084218, AI797791, AI439030, AI479025, AI436557, AI027473, AI440506, AI873534, AI243660, AA744809, AI218347, AA766305, AA938672, AA765757, AI475702, AA279525, AA806852, AA805971, AI669506, AA772543, AI364913, AA281541, AA768800, AI701372, AI382260, AA765148, AA627572, AI243662, and AA016005.
HTXLN70	7024	756630	1 - 649	15 - 663	R94410.
HTXLJ10	7025	963602	1 - 629	15 - 643	AI638848.
HTXKP30	7026	487401	1 - 486	15 - 500	
HTXKN65	7027	869345	1 - 390	15 - 404	AA613878.
HTXKM37	7028	869347	1 - 479	15 - 493	AA903764, AI859744, AA578066, AI800343, AA486680, AI044339, AW265279, AA630845, F31066, F37059, AI679759, AA338238, AW242031, AA573000, AA568204, AA570740, AA483606, AI613389, AI302350, N66927, AI884404, AA804694, AW022796, AA338237,

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HTXKM24	7029	677101	1 - 271	15 - 285	R85618, AW451329, AI342905, AL042764, T12565, and AC006241.
HTXKK96	7030	796330	1 - 501	15 - 515	AA152462, and AA152463.
HTXKK31	7031	697838	1 - 561	15 - 575	AL043095, AA227966, AA227802, N79681, AI688963, AI798234, AA308708, AA643902, W89152, AA767864, AI111171, AA309764, N55560, AI914747, AL049646, AC005822, AC005988, AL035416, AC004943, AP000555, Z77249, AJ011930, AL031584, AL132777, AC004616, AC004079, AL024498, AL049843, AC006478, AJ006995, AC005386, AC002524, AL049911, Z84487, AL049709, AC005011, AL031985, AC004408, and AL049874.
HTXKF02	7032	919683	1 - 643	15 - 657	R72784, H45937, AI682220, U51280, and AC001228.
HTXKC64	7033	746471	1 - 605	15 - 619	H73594, R94521, H54422, H65481, AA677973, AI032897, AA005280, AA005196, AA453866, N77694, and AC003973.
HTXJX77	7034	870446	1 - 592	15 - 606	AA149774.
HTXJR61	7035	741746	1 - 928	15 - 942	AI912179, AA706272, AI627711, AI753424, AW236776, R61531, AI537736, R48982, R18061.

HTXJP17	7036	663123	1 - 455	15 - 469	AA024568, AA49473, and D80433.
HTXJO80	7037	871594	1 - 440	15 - 454	AA026098, AA025198, AA025117, AA789331, A1025891, and AW086422.
HTXJO78	7038	773508	1 - 269	15 - 283	H71834, W90335, A1660357, AW204190, AA490598, A1983576, T83715, R00174, and T77359.
HTXJN39	7039	566290	1 - 321	15 - 335	N56725.
HTXJK20	7040	423763	1 - 490	15 - 504	AA775097.
HTXJC08	7041	957757	1 - 725	15 - 739	AA191116, and AC004584.
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HTXJA76	7042	767696	1 - 428	15 - 442	AA489147.
HTXJA32	7043	699152	1 - 548	15 - 562	T63847, and T63647.
HTXGH41	7044	712566	1 - 241	15 - 255	W86936, and AC004499.
HTXGE85	7045	783418	1 - 448	15 - 462	R73235, H26695, A1820688, R48685, H29757, R83605, H27918, and AB020630.
HTXFR89	7046	790276	1 - 399	15 - 413	W25596, A1815642, AA417302, AA100476, N27984, AA314322, AA045597, AA661773, AA649285, AA306867, D82429, AA310276, R89903, AA130829, R83064, AA298770, H81350, AW380232, AA297193, W22908, AW406948, AA344066, AA100050, N51146, AA370966, AA382073, W38488, T85780, AW377665, AA314221, AA334159, AL122042, and AC007842.
HTXFN90	7047	537392	1 - 361	15 - 375	
HTXFN73	7048	824543	1 - 289	15 - 303	
HTXFN63	7049	745316	1 - 295	15 - 309	AI446475, AA808264, AI681962, AA654013, AA766987, T54146, AA069743, AL020997, AL021937, AL139054, AL031388, AL050306, AC006315, AL022163, AC004531, M85145, AL034395, and AL031276.
HTXFN53	7050	537391	1 - 425	15 - 439	

HTXFN23	7051	537393	1 - 193	15 - 207	AA649055, AA676720, and Z68284.
HTXFH43	7052	537397	1 - 337	15 - 351	AW236547, W70044, W70260, and AC008545.
HTXFH20	7053	537398	1 - 204	15 - 218	
HTXFQ29	7054	689833	1 - 261	15 - 275	
HTXFF96	7055	796309	1 - 623	15 - 637	
HTXFF93	7056	934438	1 - 553	15 - 567	
HTXEY18	7057	869406	1 - 403	15 - 417	T81719.
HTXEX83	7058	780277	1 - 340	15 - 354	R10220, AW167240, AW043624, AA290774, A1741670, and AC002519.
HTXEE90	7059	789161	1 - 441	15 - 455	N67634, AW135346, A1634553, A1830652, AW190088, A1638854, A1139333, A1040317, N35344, A1215747, A1807577, A1758230, AA580929, AA808566, AA218821, and A1022393.
HTXEC96	7060	796561	1 - 316	15 - 330	R11584.
HTXEA45	7061	723401	1 - 492	15 - 506	AA055878, and A1733756.
HTXDD256	7062	733641	1 - 411	15 - 425	H54720, and H68884.
HTXDW32	7063	699559	1 - 1083	15 - 1097	AA203535, N69313, AW104800, A1345794, A1345704, AA465689, AC004554, AC002470, AC004499, AC005037, AC003666, AC005527, A1034451, AC005529, AC006536, AC004782, AC002288, AC005694, AC005921, U91323, AC005899, AC006479, Z81369, A1136295, Z98051, A1035423, A1079295, AC002365, AC004983, and AP000036.
HTXDJ77	7064	772473	1 - 285	15 - 299	W07454, A1934203, AB000878, AP000506, AB000882, AC004184, AC004173, AC004170, AB023058, AP000521, A1022723, AF055066, AC006048, AP000509, and D84394.
HTXDD24	7065	888612	1 - 416	15 - 430	
HTXCW50	7066	724650	1 - 713	15 - 727	AA463609, A1167145, AW149126, AW301636, A1918887, AW004869, AA701246, A1659509, AA463256, A1918865, and A1202534.
HTXCS84	7067	783262	1 - 69	15 - 83	
HTXBT88	7068	529663	1 - 366	15 - 380	
HTXAW03	7069	921906	1 - 551	15 - 565	A1497655, A1128840, R60767, A1345232, AW072868, A1933264, AW295282, A1673318, N40760, A1340591, A1583811, AW268087, AW086332, A1284621, AW269077, AW301308, A1792895, A1312160, A1311031, and AW268945.
HTXAK96	7070	796612	1 - 554	15 - 568	R96938, and AB020866.
HTXAJ34	7071	707050	1 - 393	15 - 407	R23649.
HTWLJ77	7072	839177	1 - 533	15 - 547	
HTWLF58	7073	869478	1 - 540	15 - 554	AA917800, AA284120, A1354369, AA551548, AA805901, A1459866, A1439676, A1889579, AA504892, A1038527, AA226260, AA629939, AA485553, AA904211, AW189853, A1201668, A1018726, A1133083, A1734172, A1732786, A1791971, A1732671, H30568, A1366555, H86579, H30595, AA434078, AA077247, AA018923, AA012829, A1654658, AA678616, AA831801, AW089016, A1036549, AA832016, AA302966, AA666272, T05617, AA483173, AW317023, A1358871, AA515745, A1911659, A1283938, AA077619, A1354677, AA036655, A1613419.

2248

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HTWLD61	7074	741610	1 - 204	15 - 218	
HTWLD10	7075	964195	1 - 367	15 - 381	
HTWLC51	7076	725533	1 - 279	15 - 293	
HTWKZ86	7077	785318	1 - 356	15 - 370	AI942248. R05388, and AA832101. AI922217, AA736485, AL048914, AA805014, AA053870, AA664879, AA570557, AI421075, AI075935, N66944, H52397, AC005519, Z83819, AC005483, AC006948, AC002549, AC005317, AC005585, AC004106, Z84469, AF017257, AC005095, AC007055, AF196779, AL109865, AC005015, AJ011930, AC004686, AC003010, AC005832, AC004765, AC005859, Z99128, AC007227, AF196969, AC006362, AL031281, AL049691, Z93017, AC004997, AC002492, AF047825, AC006084, AC005081, AC009464, AL133445, AC004820, AF053356, AP000135, D26607, AC004526, AC006960, AL024509, AP000031, AC005495, L77570, AJ251973, AC005529, AC004382, AC006205, AC005874, AF134471, AC000357, AL034420, AC004882, AP001040, AF207550, AC009263, AC003108, AL034429, AC012384, AC004150, Z98742, AC002312, AC005189, AL050307, AC004996, AC005899, AL035659, AL049745, AL079342, AC004492, Z97054, and Z84722. AC006207.
HTWKZ46	7078	718872	1 - 352	15 - 366	
HTWKZ35	7079	494833	1 - 115	15 - 129	
HTWKZ28	7080	686254	1 - 427	15 - 441	F23327, AI962030, AA425924, AA644090, AA833896, AA526625, AA526326, AA833875, AL046519, AC004778, AC004491, AL021918, AC004890, AF003626, AC008154, AL022162, AC007011, AC005562, AL009181, AL021940, AC007993, AL049611, AL021939, AC002128, AC007298, AP000557, AL008719, AL049631, AL049643, AF200465, AC005874, AF134471, AC003029, AC006236, AC006080, AP000695, AC004637, Z98949, AC005722, AC004169, AC002369, AL096701, AL035089, AC002365, AC005823, Z82195, AC005538, AC005081, AC003106, AP000008, AC005015, AC007488, AP000704, AP000967, Z81369, AL079295, AP000030, AP000212, AP000134, AC004911, AC007055, AC005410, AC006257, AC005871, AC005972, AC006111, AC005914, AC004682, Z98941, AC007263, AB017602, AC004686,

					AL022577, AC007376, AL137578, AC005412, AC016831, AC005300, AC002404, AL031685, AC006538, AC009516, AC006075, AL133353, AC001231, AC004659, AL121825, AJ229042, AL133244, AP000103, AL109627, AC005599, AC002119, AP000330, AL031577, AC005534, AC005520, AC006946, AC008101, AC005377, AC004912, AC006333, AC002492, AC004508, Z97632, Z93023, AC004234, AC004953, AC003663, Z84487, AP000056, AP000171, AC007731, AC002480, AC005500, AL035684, AL022315, AC006430, D87675, AC007191, AF001548, AP000210, AP000132, AC000353, AP000240, AL022318, AC016830, AP000269, AC002563, AP000014, AL022323, AC005486, and AC007563.
HTWKZ27	7081	812689	1 - 365	15 - 379	AA515723, AI185394, AA484892, AA480486, AA469230, AA654482, AW265688, AI049701, AA846923, AW390284, T08386, AA768179, AA229988, AI979796, T94072, AI635440, AW162750, AA601212, H62923, AA502110, AA605266, T03576, AA573000, AL137946, AI472736, AW419389, F31811, AI915081, H24957, AA757621, AW440568, AI369076, AA678932, F31867, AW068580, AA632556, AW081610, AA720582, AA429481, AW392414, AA515733, H91844, AA358086, AI889995, T50490, AI624379, F23338, AI471455, R70883, AI283938, W63553, AI223968, AI687343, AI432298, F00533, AI564301, AI347665, AI280535, AW150781, AI648514, AA614304, AI270177, AA524800, AW381823, R70884, AA302934, R94436, AW151247, AA832016, AA831801, AA808725, AA687542, AI355103, AA347927, AI053673, AA640252, AA228979, AA229823, AA702618, AI249525, Z25918, AA565319, AA515138, AI865196, AA507675, AA516320, AA503142, AW083934, AI590442, AI281818, AA225392, AI500668, AW407632, AW088130, F00688, AA610433, H67064, R34070, AA225754, AW166920, AA630476, AI926102, AA678616, AI762302, C06028, AI799421, H96146, F34506, AA225100, F09355, AA678950, AA481887, AI340151, F04475, AA632845, AL135654, AW008184, AI246996, AA582746, T49933, AA347930, AA568314, AA52724, AI679442, AA550959, AI679952, AI368732, T02827, H86579, AI783911, AI619987, AW078821, R80563, AA653291, AA469327, AI859438, AI583532, AI375294, AI142551, AA773042, AA356376, AA846482, AA665532, AI340858, AC003070, AL031591, AC005031, M87889, AL009181, AC004230, AL109952, AL022476, AC004999, AP000343, U80017, AC005231, AC006077, AL021391, AC004543, AF109907, AC004491, AC007099, AF152363, AC006449, AC005529, AC003101, AC005821, AC004752, AP000493, AC005209, AL035071, AC002565, AC004099, AC007686, AC007437, AC004796, AC004882, AF134726, AC004883, AL021977, AC006515, AC003104, AC004858, AC002549, AC008116, AP000355, AC005081, AL139054, Z98742, AC002542, AC006023, AP000201, AP000556, AC005663, AP000704, AC005921, AL117351, AC002082, AP000097, AL033392, AL132712, AC005940, AC005800, AP000301, AL021453, AL034420, AC004106, AJ003147, AL049839, AC004125, AC005409, AL049843, AL049589, AP000503, AL022328, AC005971, A51133, A76958, AC002559, AL122020, AF024533, Z98884, AC002288, AC004760, AC005866, Z98048, AP001051, AC005291, AC020663, AL078624, AL008718, AC004962, AJ246003, AC005071, AC005632, AL121757, AL035685, AL049694,



HTWKZ15	7082	659934	1 - 355	15 - 369	<p>Z98304, AC005815, AC002996, AP000354, AC005086, AL117258, AL135744, AC004383, AC008009, AP000961, AC003982, AC002477, AC005972, Z98946, AC005746, AC005234, AC003695, AL109984, AC003043, U73479, AL035413, AL022163, Z73913, AL117328, AC007637, U95739, AC007298, AC005630, Z98044, AC002091, AP000275, Z84467, AL008721, AC006960, AC006948, AC007225, AC004686, AC005747, AC007240, Z49866, AC002302, AC000039, AC002350, AC006088, AC005015, AL035405, AL035683, AF118808, AC010200, AF039906, AC006480, AC004673, AF048729, AL121652, AC004834, AC005225, AL034351, AL022238, AL031074, AC006040, AC000084, AL118497, AB022785, AP000037, AP000105, AC007566, AC006101, U47924, AC003108, AL033525, AC005325, AC005156, AC004638, AC007934, AC016831, AC007773, AC005036, AC004079, AC004492, AC004878, AC004905, AC004765, AL022323, AC005288, AC006597, AF205588, AC005488, Z82172, U51561, X64467, AC007066, AC006501, AF165926, AC009225, AF196972, AP000359, AC005962, AP000547, AF006487, AC005856, AL031286, AC004148, AC007371, AC004067, AC003029, AC004837, AF027974, AC006251, Z99291, Z83846, U85199, AC005619, Z97054, AP000065, AP000045, AC005342, AC005516, AC005229, AL020997, AC002395, AF196779, AF029308, AC005684, AL109827, AC002349, AC005484, AC002430, AL031668, AL035086, AL121603, AC007216, AC005899, AC004890, AJ006995, AC004819, AP000053, AC005152, AL021154, AC007030, AL049874, AC005664, AC003107, AC002543, AC006001, AL021546, AL021940, AF111167, AC005154, AC004844, AB014087, AL035458, AC006312, AC006064, AL133246, AC005722, and AL034555.</p> <p>AI754257, AA084439, AW410409, AA642809, AW277174, AW327852, AW270768, AL291037, AI754064, AA579398, AI797998, AA535216, AA129746, AA904211, AA846923, AA618263, AI090377, AW238712, AI634187, AA809125, AI281818, AI754170, AA127222, AI039539, AW021951, AI521525, AI283312, AI889995, AA622801, AI479148, AW238341, AA741110, AI053784, AA831426, AA496369, AL035977, AW151247, W60612, AA679794, AA579130, AA577706, AA410788, AW151541, AW069412, AI311779, AI056177, AI457313, AL134278, AI809818, AW069227, N40092, AI207728, AW020150, AA600202, AA602906, AI745116, AC006080, AC004805, AL022326, AC006211, AL133246, AC009241, AL031643, AL049838, AC006965, AC018633, AL035086, AF111168, AL022336, AL117354, AC004382, AC005678, AC006511, AC002088, AL078581, AC006077, AL031276, AP000493, AP001053, AL022318, AL132826, AL050338, AL049832, AL023581, AC007652, AL035688, AL132777, AC008282, AC006026, AP000403, AC004885, AC005588, AC005036, AP000344, AC007656, AL109985, AC005828, AL031287, AL031848, AL122126, AC008119, AC004028, AP000043, AC007015, AC002430, AC004158, Z95114, AC005225, AL034376, AL133396, AC002369, AC007384, AL022717, AC004478, AL109653, AL049650, U66722, AC006006, AC004910, AF047825, AF152363, AC006160, AC000094, AL132712, AL136504, AL122020, AP000532, AC004992, AC005157, AC006112, AC005969, AC004042, AC000085, AL035412, AC006257, AL121694,</p>
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HTWK141	7083	712142	1 - 437	15 - 451	AC002394, AL079342, AC002553, AC004148, AC004019, AC005411, AC005484, AC004068, AL035249, AL031132, AP000009, AC004451, D87675, AL022143, AF001550, AC009405, AL031133, AP000354, AC003684, AB020869, AL031259, AC007955, AC005234, U91324, AL031297, AC006017, AL136295, AC002981, Z93016, AC006487, AC004764, AL021397, AL050321, AC005544, AC005537, AC007326, AC005014, U91318, AC000359, AC003010, AL021394, AF178030, AC005527, AC005740, AL049780, AC004659, AC007540, AC007055, U47924, AF003528, AC007036, AL023575, Z86090, AC000004, AC005257, AC003976, AC004655, AC004887, AC003688, AL031671, AC005529, AL022719, AC007151, U89335, AL031311, AC003108, AC005939, AC005082, AC005053, AP000516, AC006480, AC005370, AB023050, AC004646, AC007637, AC004583, AC002477, AC006482, AL022578, AC003658, AL022067, AL109853, Z95115, AJ011930, AC006449, AC005771, AC005206, U91326, AL035089, AC002476, AL121754, AC007541, AC007934, AC002310, AC005911, AL133371, AC007238, AC007040, AC004941, AC002036, AF109907, AC005593, AC003081, AC005667, AC005330, AL031708, AL021546, Z98200, AL031670, AC007877, AC005057, AC005086, AL049552, U80017, AL022726, AC005332, AC005280, AP000353, AL034420, AC007388, Z82215, AC005274, AP000470, AC005736, AC004257, AL022316, AP000511, AL031680, AC002991, Z84480, AC002546, AC000353, AC009247, AL020997, AC006996, Z84466, AC005844, AC004491, AC005746, AC006146, AC007030, AC005841, AL049765, AC005399, Z81370, AL080243, AL121756, AC004685, AL031295, AF217403, AF049895, AL050307, AC002563, AF196972, AL031686, AL049611, AC006468, AC004030, AC006343, and AC002988.
HTWK141	7083	712142	1 - 437	15 - 451	AA281719, AA286940, AW271848, AA743292, R39726, and AA262177.
HTWK141	7084	703863	1 - 522	15 - 536	N76304, and N76291.
HTWK141	7085	952841	1 - 307	15 - 321	AL000527.
HTWJY36	7086	708338	1 - 458	15 - 472	AW118886, AI741663, AI435117, R70887, AI199990, AI168416, AA285071, AI361897, AI215545, R70888, AI361901, and AF195821.
HTWJH08	7087	790185	1 - 193	15 - 207	AI302448, N92646, AW134987, AI950033, AA659232, L29349, X17648, A28928, L29348, U93096, S48539, AC005081, AC005399, AC002418, AP000511, AL049713, Z83840, AC006013, AC004386, AC010722, AC005406, AL079333, AC005899, AL022323, Z47066, and AL049872.
HTWJF89	7088	805706	1 - 449	15 - 463	AL138227, AL138236, H80610, AA133578, R12953, Z43397, H10281, AA486037, AW170131, AA878478, N91220, H82000, AA488655, AA456874, AI818140, AI692200, AA932253, H80857, AI091568, AI768111, AA836363, AW274397, and AA829456.
HTWJF50	7089	911448	1 - 1533	15 - 1547	AI693688, AI089291, AI492178, AI239859, AA651942, AI057017, AA932955, AW205176, AA806301, AI911826, AW205734, AI439640, AI379127, AI493662, AW207182, AW270056, AA825776, AA291010, AI239585, AA235097, AA256500, AA291012, AA310652, H58752, AA824566, AW340433, D31147, AA256924, AA911804, D31268, D31363, AI243382, AA578487, AA504191, and AA504190.

HTWJA79	7090	559919	1 - 214	15 - 228	AA664604, AW069227, AA845659, T41284, AI932600, AI634187, N23913, AA483599, AW083934, AI457313, AA613257, H42271, AA595547, AA503298, AA682912, AC002288, AC007999, AL022318, AC004797, D00591, AF207550, AP000553, AL031577, AC003108, AC005500, AC004033, AL031767, AL023879, AC005071, Z95116, AC005823, Z95114, AC016025, AC005988, AC006211, AC004805, AL121603, Z84480, AC002369, AC003071, AL022396, AC005874, AF134471, AL137100, Z93930, AC005632, AL031846, AB000882, AL049694, AP000555, AL049869, AL050402, AC002470, AL133246, AL035423, AP000469, AP000692, AL049776, AL008732, Z83826, Z93241, AC007731, AC002425, AP000210, AP000132, AC004796, AL031281, AL031542, AC007681, AC005899, AL021154, AL009181, AC009263, AC004752, AF107885, Z97630, AC000353, AC009516, AL080277, AL031120, AF128525, AC005544, AC007785, Y14768, AP000502, AC010077, AC003041, AC004408, AL049780, AL035587, AC007225, AL008715, AL035413, AC005399, AC007227, AC005089, U91326, AC005484, AC002300, AC006285, AL022722, AC005740, AL021155, AL035089, AF134726, AL079295, AL031676, AC007099, AC002476, AC005304, AC007676, AC004057, AC007510, AP000505, AC006486, AL023575, AC005839, AL049589, AC003109, AL117694, AC005004, AL135960, AJ131016, AC004841, AL132992, AC004848, AC009509, AL033527, AC008984, AC004623, AL080242, AL049697, and AC006392.
HTWFQ19	7091	586124	1 - 225	15 - 239	AC006208.
HTWFM90	7092	582285	1 - 368	15 - 382	
HTWFM89	7093	786805	1 - 369	15 - 383	
HTWFM79	7094	841983	1 - 331	15 - 345	AA744539.
HTWFM71	7095	760303	1 - 304	15 - 318	AA501794, AA506744, AI783581, AA743445, N23896, AA586661, AA526426, AW250905, AW150524, AA679532, AL041373, AA535216, AL041526, AA207033, AA847702, T71535, AA352578, AL109612, AL139054, AL079342, AC005084, AC006449, AC002091, Z98749, U91323, AL117354, Z82975, AC004913, AC007160, AC007842, AC004999, AC007075, AC005971, AC004859, Z84466, AC006111, AL135744, AC002314, AC005288, AL049758, AL049843, U07562, AC006141, AD000092, AC004662, AC007253, AL109952, Z84483, AC005520, AC005531, AL110502, AC005535, AC005377, Z85986, U85195, AL049539, AC005207, AC007358, AL031291, AC006965, AC009247, AL078639, AL049569, M63543, AL031229, AF111167, AC002472, Z97053, AC005031, AL121825, AL121652, AC006511, AC005387, Z95114, AL035079, AC006211, AF029308, AC002312, AC004808, AE000658, AC000353, AC005057, AC005730, AC004019, AF207550, AR036572, U91328, AC007536, U50871, Z99716, I08101, I08711, M24461, Z84469, Z85987, AP000502, AF064862, AL049759, AL096701, AC005225, M63544, AC005071, AF124523, AF205588, AC005632, AF064865, AF019413, AC006262, AL049636, AC002115, AL024507, Y18000, Z97183, AC005411, AL035427, AC006006, Z84480, AC005696, AP000023, AC002468, AC002980, AC002426, AL034421, AB023051, AC005409, AL031659, AL021154, AC005280, AL022318, AC006530,

						AP000031, AC004876, AL022721, AL133246, AL033527, AP000555, AP000255, AL121653, AC002477, AC004554, AC005899, AF042089, AC007450, AC004821, AC002310, AL133249, AC007055, AL031390, AF159056, AC002377, AC005519, AC004745, AC008119, AC005874, AF134471, AC005670, AC005179, Z84484, AC004531, AC007136, AC005181, AC004805, AL096678, AL049538, AL031650, AC005368, AC005215, AL031230, AC007308, Z83844, AC008040, AC006274, and AF165926.
HTWFM48	7096	721587	1 - 351	15 - 365		
HTWFJ71	7097	869491	1 - 596	15 - 610		
						AI357460, H64908, H64907, H86105, H86095, AA586433, AC004884, AL049589, AC005539, AP000500, AL035458, AL109758, AL133312, AC005859, AC002449, AC004382, AL135960, AJ131016, AC005921, AC009363, AC006205, AC005288, AP000194, AL031431, AC005548, AP000355, AC007055, Z85987, AC006950, and AL008718.
HTWFH75	7098	767251	1 - 485	15 - 499		H78965.
HTWFH73	7099	761686	1 - 710	15 - 724		AA417751, and AW376554.
HTWFH42	7100	713667	1 - 626	15 - 640		T86260, and AA001345.
HTWFG29	7101	800193	1 - 114	15 - 128		AI219208, AI697463, and AL050379.
HTWFD63	7102	745010	1 - 499	15 - 513		T77812, T77718, and AA009632.
HTWEY89	7103	864553	1 - 708	15 - 722		N36996, R36291, AW368228, Z42166, AL117446, AF084520, AF111162, and AF023451.
HTWEO90	7104	788859	1 - 705	15 - 719		AA059476, AA017611, AA056081, AA001373, AA017554, AA053344, AA001463, AA018178, and AA054441.
HTWEI74	7105	765512	1 - 423	15 - 437		NG4473, and AI379859.
HTWEH76	7106	876853	1 - 753	15 - 767		AA155698, AA307060, AA314164, AW247756, AA378299, AA352789, AA339982, AA205909, AA400664, AA455322, AA356865, and AA205544.
HTWEC75	7107	767264	1 - 849	15 - 863		AW003230, W16522, AW003274, AI192577, H37762, AA017517, H86814, H38845, AA813026, and N79989.
HTWDR91	7108	869526	1 - 433	15 - 447		AA522642, AA502866, AW062724, AI133297, AW084466, AA568754, AL045808, AL046156, AA52856, AA552843, AI270117, AL031721, AC004686, AC005231, AC007536, AC005914, AL133445, AL021878, AC005066, AC003026, AL021154, AC004386, AL049761, AC004504, AC002467, AL135960, AJ131016, AC007664, Z99497, AC006143, AC002350, AC006211, AC005295, AC005520, AC005525, AL049872, AF205588, AF111169, AC006538, AC005013, AP001053, AC004104, AL139054, AC002472, AC002349, AC005387, AC002347, AC009516, AC004066, AL049871, AC004087, AC005261, AC006130, AC004966, AC002492, AL033521, AC006257, U91321, AC007229, AC007792, AC004049, Z86090, AC002301, AC007057, AC007182, AL079342, AC003684, AL109627, AC007021, AL022316, AC006111, AC007387, U95739, AC004953, AC004804, AC004554, AC010206, AL008722, AC004448, AL133163, AC002418, AC004167, AL050333, AC003070, AC005399, AC002115, U66059, AF064861, AC001228, AC005251, AC005256, AL121655, AC007688, AC006115, AC008040, AC005913,

					Z99716, AC005041, AC006480, AC006079, AF200465, AC004895, AL031650, AC002558, AP000346, AF111168, AC005220, U85195, AC007735, AC004526, AC004797, AE000658, AL049760, AL034549, AL022322, AL034373, AC005859, L78810, AL117354, AL034417, AL035422, AC005088, AL133289, AP000553, AC002468, AC007204, Z93241, AL133244, AC004408, AC002550, AL031848, Z93023, AC003002, AC004453, AL022165, AL109628, AC005531, AL031588, AC006273, AC005242, AC002082, AL034423, AC005527, Z97053, AC009498, AC004002, AL035413, AC007240, AC005940, AC002310, AL022329, AF134726, Z84487, AL035086, AC007114, AC008125, AC006316, AL022302, AF190465, AC007014, AC004687, AC007277, AP000493, AC007043, AC007686, AC006544, Z98257, AC002119, AC004000, AL049569, AL078603, AL132994, U02531, AC007263, AC007050, AC000353, AL022476, AC005529, AP000350, AC006537, AC008372, AC005696, and AC004027.
HTWDO06	7109	935644	1 - 448	15 - 462	AI669567, AI695711, and T05468.
HTWDR68	7110	753086	1 - 437	15 - 451	AA129656, and AA746901.
HTWDJ42	7111	713869	1 - 328	15 - 342	N77331.
HTWDI49	7112	723047	1 - 571	15 - 585	AA054396, AI743787, AI073458, AA018101, and AL044482.
HTWDE70	7113	844831	1 - 436	15 - 450	AC005696, and U72337.
HTWCL86	7114	575978	1 - 215	15 - 229	
HTWCJ08	7115	959591	1 - 401	15 - 415	AA888961, AW439896, and AA868282.
HTWCG06	7116	935642	1 - 443	15 - 457	AA279971.
HTWCD06	7117	935646	1 - 557	15 - 571	AA579292, and AC006465.
HTWCB69	7118	729244	1 - 457	15 - 471	T84278, and AA383674.
HTWBW72	7119	772117	1 - 230	15 - 244	AW135049, AW083547, R61742, AI568770, AI222656, AI041283, AI640653, AI991607, AW236481, AI969723, AA705419, AI093706, AA425921, AA430741, AW006215, R02041, H61287, H28170, AA468148, AC006208, and A81344.
HTWBV33	7120	594496	1 - 1041	15 - 1055	AA985143, AC005089, AC004834, AC007227, AL133163, AC005071, AC005399, and Z83844.
HTWBV03	7121	869549	1 - 636	15 - 650	AA732581, AA824630, AA832097, N26752, AA808362, AA215352, AW085919, AA669001, AC006059, and AF184110.
HTWBT62	7122	742588	1 - 521	15 - 535	T83835, AA677864, AW261956, AW261950, AA298745, Z99715, Z99572, AC005482, AC005027, AC009501, AC007064, AC006257, AL022100, U80460, AC004191, AP000517, AB023054, AI049872, AL021978, AC003007, AC005632, AC005697, and AC005229.
HTWBP67	7123	751752	1 - 447	15 - 461	AA056010.
HTWBL08	7124	959619	1 - 406	15 - 420	W56799.
HTWBI04	7125	922175	1 - 395	15 - 409	AI638694, AW182504, AI150350, AI376812, AI373044, AW003341, AI083699, AA534930, AI887148, AI951215, AI620446, AI659373, AW206004, AI085282, AI522003, AI521262, AA741574, N67531, AW339317, AI695995, AI916152, AI092112, AA765164, AA808097, and AI620044.

HTWBF27	7126	683546	1 - 565	15 - 579	W37350, A1970621, A1810064, A1493716, A1189191, A1885136, AA743040, A1189957, AA760856, AW071071, A1433949, AA481996, AA825555, AA515413, A1200341, AW190996, A1795936, A1189529, A1824302, AA975839, A1695491, W37351, and AA481851.
HTWBE63	7127	745194	1 - 333	15 - 347	H92261, and AC016025.
HTWBD84	7128	783120	1 - 463	15 - 477	AA699991, H71504, H71176, and AC000118.
HTWBD61	7129	604245	1 - 555	15 - 569	AP000355, AC003950, AC005089, AC007151, Z69705, AC004754, AP000036, AC005300, AC007225, AB023048, AC005015, AC003085, AP000510, AC006441, AL109963, AC004813, and AL022336.
HTWAM49	7130	722141	1 - 432	15 - 446	H74000.
HTWAM48	7131	518825	1 - 327	15 - 341	AA743565, AA743563, AA742175, A1220263, T57857, T57938, and AC009304.
HTWAM25	7132	677506	1 - 744	15 - 758	A1810002, A1652845, AW082692, A1627258, A1671544, A1671088, A1634816, A1147359, A1206170, A1472278, A1568947, AA889568, AL036581, A1016893, A1307382, A1024362, AA961211, A1911594, H43229, A1041222, T26622, A1457243, H11156, AW204388, A1674226, AA464060, N50195, H44677, AW303315, N49065, A1004849, AA188991, M79060, A1142365, T85312, AA100133, and R72791.
HTWAJ11	7133	967845	1 - 728	15 - 742	AW088739, AA453123, and AA449987.
HTWAE31	7134	725127	1 - 342	15 - 356	R16359, N57044, AA588892, AA548419, AA853105, H03307, R25111, H02478, A1031908, R02720, A1807471, A1827995, A1539386, H12509, AA412317, H72421, AA455577, AA305179, R23890, AW371415, H00834, R76442, A1025228, R31066, W79084, R37557, W00472, A1190303, R73757, R71169, H03862, AA393148, H72396, AA436117, N40362, H59895, A1345954, AA868538, R23710, H01351, R83423, A1291760, AA988977, A1311479, A1025986, R63278, A1083851, A1219986, AA932930, A1829710, A1436105, R65986, R76229, AW268605, A1202768, R75983, A1142135, A1338679, N37092, AA305134, A1200426, A1720044, AA295914, A1808710, A1309975, AA905015, A1289227, A1911731, AW084515, AA976254, AA883578, W58740, A1830140, A1798704, A1332422, A1807161, A1222787, AA885823, T85666, AA884231, A1742423, A1148589, A1476645, R73969, AA906270, A1991280, A1091541, A1040961, AA884285, AA843421, N26589, A1204236, A1091532, A1081663, AW001083, AA435561, and AF151810.
HTWAB85	7135	522346	1 - 294	15 - 308	AA522944, AA704012, AA809116, A1648583, AA070899, AC003007, AC005632, AC006064, AC007731, AC005500, AL031680, AC004659, AP000065, AC008033, AC007687, AC005358, AC006449, AC005015, AP000212, AP000134, AC006262, AC005102, AC004797, AC006333, AL031848, AC005081, AC002544, AL031767, AC005013, Z95152, AC005412, A1022320, AC005257, AC005899, AC006001, AC007384, AC004851, AC003070, AC016831, AC004125, AC005261, AC002996, U91318, AL139054, AF045555, AC005696, AC005914, AC004167, AC007055, AC008101, AB001523, AP000552, AC005722, AL049779, AL035410, AP000044, AC002400, AC004967, AL031311, AC004996, AC005575, AC006120, AC004883, AL049780, Z84480, and U91326.

HTWAB65	7136	533745	1 - 419	15 - 433	<p>           AI187056, H82904, AI133350, AI246876, AA614055, AL119415, H91630, AA677886, T81869, AA625238, AI457464, AL049765, AC002072, AP000152, AF035396, AF003625, AL031391, AL031278, U13657, AC007363, AC002524, AL117258, AC008012, AL049829, AB014088, AC004470, AC005969, AC004190, AC004687, AC009411, AC006971, AC004998, AC005061, AF101874, AL022575, AC004225, AC004948, AC007486, AP000516, AF036938, AC007100, U01882, AL035552, AF001905, AL022151, AL121654, AC006143, AL133249, AL117325, AC002463, Z75745, AC004384, AC004385, AC004025, AP000567, AC004103, AL049781, AC002395, AC002457, AL132826, AC004070, AC007751, AL109753, AC002980, AL031433, AP000083, AL022147, Z84470, AB020867, AC006197, AC004519, AC004020, AC005389, AC007380, AL031653, AL049589, Z83822, AC008041, AC005539, AC004052, AC007877, AL109620, AC003083, AL031651, AC000115, AL020989, Z97632, AC008123, AC005728, AC004979, Z83841, AL049612, AL118521, AC007312, AL109733, Z82975, AC004552, AL133233, AC003013, AC005535, AC004389, AF130342, AC003667, Z69367, AC002564, AL022160, and AL049177.         </p>
HTWAB57	7137	735153	1 - 350	15 - 364	<p>           AA836182, AI818453, AA345400, R12683, AI371165, AA507984, AA420739, AC006946, AC005952, U85195, AC006456, AE000638, AC004447, AL035417, AC005043, AC002400, Z54334, U07562, Z95115, Z97054, AC004799, AL110279, Z98752, AP000295, AF088219, AL109758, AC005837, AP000044, AP000112, AL132708, AC004672, AL023574, AL035691, and AL035681.         </p>
HTWAB46	7138	522817	1 - 229	15 - 243	<p>           AA728861, F13749, AA715351, AL039309, AI636734, AA381762, AW238016, AL135643, T07346, AA341120, AI751162, AW162288, H12972, AI696793, AA804625, AI053489, AA302952, AA878407, AI973173, AL021366, AL050332, AL024507, AP000358, AC008149, AL022326, AL049694, AL049869, AL121754, AC007225, AC002470, AL121655, AC004990, AF126403, AC006449, AC005696, AC004477, Z75407, AC005089, AJ251973, AC003682, AC005703, AL049872, AC002492, AC005632, AC007731, AC005015, AC005500, AL078584, AC004408, AP000553, AF064860, AC004638, AC007051, AL022313, U47924, AC002430, AC020663, AC007384, AC008012, Z98048, AF129756, AL049829, AL021154, AP000096, AL034417, AC005057, AC005488, AL096703, AF109907, AL022067, AC004149, AC004079, AL031447, AC000052, AL031594, AC006121, AC005041, AL049636, AP000240, AC002350, AC005914, AC006511, AC004019, AC007066, U95741, AL022336, AL031296, AF053356, AC004491, AC005081, AC001228, AC004815, AC007546, AC005180, AC005722, AL023803, AC006538, AC009516, AL031589, U85195, AL022323, U02068, AC005071, AF165926, AL080243, AC005237, AC005323, AL121603, AC005740, AC005971, AL136295, AE000658, U91321, AC005102, AL031587, AJ003147, AC004983, AL117258, AC005229, AC005837, AP000556, AC004471, AC007308, AL109984, AL133245, AC004913, L77570, Z83840, Z93784, AC004991, AF030876, AL109627, AL109827, AC006116, Z95116, AL117340, AC005911,         </p>
HTWAB42	7139	714291	1 - 372	15 - 386	

					AC005899, AC004525, Z99716, AP000201, AC005874, AF134471, AC005796, AF124731, AC005410, AJ006216, AP000097, AC002073, AC004253, AC005943, Z95115, AC005520, AC007151, AL121825, AL009181, AC005736, AC005004, AC005257, AC000026, AP000555, AL033392, AC002059, AC005067, AC005844, AC005239, AL035587, AC005231, AC004659, AC004752, AL049744, Z97053, AC010200, AL023575, AL049589, AL035410, AC005069, AC016027, AC016830, AF111168, AC005189, AC007216, AF091512, AC007240, AF207550, Z93241, AP000510, AL079303, AL035684, AC002369, AL031311, AC008040, AP000347, AL034421, AL049538, AL133371, AL132987, AC005225, AC006948, Z82215, AP000346, AC007387, Z84814, AL035089, AC016025, AC004813, AC006285, AF001548, AL022316, AC003109, AC003007, AL031393, AC003962, Z98051, AC007226, and AL034350.
HTWAB32	7140	524291	1 - 309	15 - 323	AA630476, AW023975, AI174703, AA663579, AW275432, AA425283, AW409626, AI114543, AA493546, AI547110, AW084152, AA631915, AI282479, AI254267, AI708108, AA55232, AA601376, AI753904, AW409621, AA280886, AW026305, AI421950, AW339619, AI419337, AI568376, AL039436, AI310670, AW104161, AI061313, AI446618, AI361090, AI349130, AA502991, AW192419, AI267416, AL042667, AL042670, AI801479, AA525818, AI039257, AI049999, AA180056, AA669238, AI433952, AW439224, H86725, AW270468, AI434653, AL037067, AI065031, AI889345, AW084445, AI520984, AA664963, AI284543, AW148964, AI281622, AA526542, AI090377, AA831426, AI572680, H59429, AI003068, AA829044, AI476049, AI797998, AA570255, AI250552, AW327624, AA714011, AI923052, AA525156, AI252005, AI254463, AW151247, R99253, AI921744, AA229012, AA669155, AW069273, AA483735, AI254770, AI809300, AA572711, AI791659, AI251284, AI251034, AI251203, AA601712, AI457152, AC002306, AC005519, AP000008, AC004125, AC008044, AC002094, AL049694, AC004234, AP001054, AC004808, AB020865, AL022165, AL021453, AF129756, AC004019, AL133163, AC005175, AC004859, AC007488, AC005911, AC007421, AL049776, AC005089, AL049839, AC004263, AC004233, AC007050, AC004895, AB001523, AC005484, AC004257, AC005412, AC007277, AF111168, AC005585, AL031311, AC008372, AL034420, AC005696, AC007036, AL021808, AC007308, L44140, AP000553, AF001550, AL035587, AL139054, U95742, AL031673, AL049538, Z99714, AC002312, AC007229, AC006487, AC007216, AL109758, AC005821, AF207550, AL022322, AC005740, AJ011930, AF109907, X69907, AC005921, AC003684, Z83843, AL080317, AL035416, AL121653, AC004858, AC006315, AC005346, AC002492, AP000704, AC006006, U85195, Z98051, AC006261, AC005365, AC005180, AE000658, L78810, AC006509, AC007237, AC002527, AC004112, AL031587, AC005932, Z85986, Z54073, AC004006, AL049829, AL031846, AL109628, AC006449, AP000248, AC004814, AC002039, AC004973, Z75744, AC004056, AC003957, AC005015, AC005624, Z99716, AC007371, AC005829, Z95114, AL034423, AC007684, Z83840, AC005183, AP000557, AC005253, D00591, AC005632, AC003007, AF196779, AL121595, AL031433, AC004994, AC005722, AC004084, AL031670, AC004801, AC005332, AL133246,



					AC003043, UG3721, AC005730, AC004805, AL035658, AC004751, Z84469, AC007227, AC002036, AC006538, AL049591, AL050307, Z54246, AC007666, AL109827, AL049874, AC010205, AF176815, AC005701, AF165926, AC004998, AL109847, AB016897, AL133312, AC004383, U91327, AC005619, AC005409, AC002404, AL008726, AL022721, AC004236, AC004491, AL020995, AC006511, AC010170, AC004913, AC006277, AC004531, AC003665, AD000092, AC004771, AC005231, AC005377, AL024509, AL133243, AC004743, AL080243, Z82198, AL009181, U91323, AC006241, AC004671, AC002546, AC000052, L39891, AL021579, AC006101, AF196971, AC002565, AC008072, AL022163, D28126, AC002394, AC004997, AC005531, AC008041, AL031005, AC003109, AC007298, AL049869, AL078581, AF001549, AC007676, AC003029, AC006453, AL008718, AC004783, AC005666, AC000159, AC004673, AL096775, AC002563, AC002120, AC005355, AC004663, AC004381, AP000210, AP000132, AP000208, AP000130, AC006441, Z81364, AC004099, AP000457, AC002418, AC005261, AL031228, AL022476, AL035445, AC004593, AC004448, AC006071, U07000, AC005726, AC005102, AL031289, Z93930, AC005682, AC005406, AL033521, AL050331, AF111167, AC007386, AC002310, AL049843, AC003080, and AC003041.
HTWAB27	7141	522796	1 - 353	15 - 367	AC003010.
HTWAB18	7142	522794	1 - 194	15 - 208	AA846935, AL796594, AA904211, AC005190, AC005531, AL022336, U91326, AC005520, AC008101, AC009516, AL022721, AC006512, AC008044, AL031848, D87675, Z99716, Z95114, AC002470, AC007308, Z97054, Z93023, L78833, Z82190, AC007057, AC000081, AC006120, AL031685, AC004259, AP000555, AP001056, AC005255, Z82244, AL031311, AL133448, AF165926, U96629, AL050318, AC005924, AC005484, AC003101, AC007214, AL049776, AC004600, AC002350, AC006544, AL080243, AC005280, AC006064, and AC005231.
HTWAA79	7144	869563	1 - 392	15 - 406	AC007766.
HTWAA42	7145	522603	1 - 140	15 - 154	
HTWAA32	7146	522797	1 - 426	15 - 440	
HTWAA31	7147	915276	1 - 332	15 - 346	AA643226, AI014703, AI969243, AW162494, AW162864, AA189060, AI859830, AW204291, AI948937, AI989446, AI954000, AI309612, D81407, AI675152, and AL022240.
HTWAA22	7148	425133	1 - 442	15 - 456	
HTWAA17	7149	667166	1 - 291	15 - 305	AI039089, AI912401, AA657752, AA641122, AW274078, AI049845, AA612727, N74479, AI187148, AI828275, AA600202, AA452887, AA581247, AI446336, AA158549, AA513851, AA630854, AA015740, AA595499, AL031595, AL132777, AC002425, Z98051, AP000509, AI049766, AC004895, AC009516, AC006512, U91326, AC005291, AL035071, AC007731, AL021939, AC005500, AL049780, AC005730, AF003626, AB073049, AC005484, AC005921, Z98304, AL096701, AF017104, AC006270, AP000702, AC005089, AL031257, AC002551, AF196969, AC006511, AC002465, AF053356, U47924, AC004448, AC020663, AC006530, AC004821, AC004491, AL049830, AF196972, AC005952, AB000882, AC005225, Z84480,

					AC004841, AF001549, AC002301, AC007536, AC006538, AC002394, AC005048, AC005324, U52112, AC007021, AP000356, AC005846, AC007298, Z95115, AL080243, AC006576, AL008710, AC006509, AL133353, AC004967, AC005399, AF069291, U80017, AC008372, AF069074, AL031846, AP000553, AL109627, AC004686, AP000350, AL049636, AL024498, AP000505, AC007308, AC004815, AL096773, AL031985, AC004033, AL121652, AC005180, AC002430, AC005015, AL020997, AC004890, AL023803, AC006312, AC003109, AC005088, AC006241, AC003101, AC006388, AC003665, AL008708, AP000466, AP000557, AL009031, AC005839, AC004694, AL121603, AC007055, AL009181, AL022316, AC002375, Z93023, AC002119, AC007384, AC005821, AL133163, AC003107, AC004148, U95739, AF207550, AF129756, AC006026, AC004983, AC002996, AC003085, AD000092, AL049696, AL049631, AC004902, AL078581, Z86090, AC004685, AC003042, AL023879, AC005837, AC000041, AL031291, Z82178, AC006557, AP001052, AC005332, AC007546, AC003029, AC007421, Z98950, AC005231, AC007192, AC006251, AC005722, AC005592, AL035587, AL022318, Z84476, AC012083, Z83840, M89651, AL121754, AC002128, AC005971, AC007226, AP000513, AL033504, AC005412, AC004882, AC005695, AF111168, AC005702, AC002326, AL132712, AC006501, AL033527, AP000302, AL031311, AL121653, L78810, AC007216, AL034548, AC006285, AC002302, AC007193, AC005829, AC005037, AC005907, AP000349, AC006057, AC007225, AL031427, AL035086, AL031848, AL022319, Z83844, AC004167, AC004985, AC003663, AC004703, L35535, AC006211, AC006960, and AC005519.
HTUAE10	7150	968597	1 - 400	15 - 414	AL285485, AL348867, AI053496, AW268210, and AW303040.
HTUAA93	7151	522950	1 - 351	15 - 365	
HTUAA79	7152	773978	1 - 369	15 - 383	
HTUAA63	7153	522080	1 - 249	15 - 263	
HTUAA59	7154	556958	1 - 347	15 - 361	AA487321, AI793001, R00245, AA377710, AL031176, AL096773, AC004009, AL109865, AL109622, AC002045, Z99756, AC004042, AC002492, U95626, AC000358, AC006926, L42096, AC000114, AJ011930, AC012083, AC006080, AL109854, AC003677, AC005792, AP001068, AL109939, D42052, AP000475, AC007677, AC004685, AC003090, AC007253, and AL021407. AL117342.
HTUAA55	7155	522805	1 - 347	15 - 361	H96435, H96525, AI051562, AI032133, AP000150, D83253, and AP0000009.
HTUAA51	7156	725949	1 - 303	15 - 317	AL037910, AI223987, AI860020, AA192278, AW148792, AA346454, AI289962, AA587995, AA608704, AI871722, Z96622, AC005924, AC006480, AC006539, AL022318, AC005829, M17262, AC004686, AL109627, AC003035, AC007066, AB023051, AC007114, AF129756, AC007510, AL021155, AC005037, AP000692, AC005094, AL049569, AL023284, AC007999, AP000512, AC006530, AC005944, AC004024, AC004895, AC003010, AC005632, AL133245, AF053356, AC005102, AC007308, D87675, Z99716, U73636, AC005940, AC005839, AC006071, U80017, AC003037, AL031295, U95740, AL023553, Z93023, AC004042, AC006996, AC004087, AL020993, AC007285, M29929, AL135783, AC005215, AC002430, Z85986, AP000505,
HTUAA45	7157	526606	1 - 359	15 - 373	

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HTUAA42	7158	694535	1 - 101	15 - 115	AC005189.
HTUAA32	7159	522807	1 - 212	15 - 226	AC005601, and AC004782.
HTUAA25	7160	575308	1 - 476	15 - 490	H69008, AA458742, R02451, R00403, T99834, R02347, H86860, AA172191, AA845293, R89511, H67123, H73704, AI926681, AI860677, AA303055, R24915, AA457249, AA128700, AA176917, AA772016, R07395, AA604854, AA458498, AA828676, AA655015, AA553810, F27015, AA468425, AA055601, N64587, H72339, AA879053, AL040462, F02833, AA657835, AA640617, AI244254, AA613164, AI696550, AI051037, AA379332, AA693484, AI287832, AW081815, H63806, AA865262, AI982634, AA323349, AA467963, AA743811, H53168, AA229464, AW274197, AA573127, N76053, AI572693, T81820, W69964, AI565245, AA293366, T07483, AA304977, AA331231, AW075132, AI590458, AL046746, AI590499, N30431, AF141308, AC007227, AL035413, AF084941, AL035587, AC005366, AC004623, AC005778, AC008033, AL008723, AC000035, Z83822, Z94721, AC000025, AC005527, AC005332, AC004202, AP000518, AB023054, Z98950, AC004087, AL050308, AL031575, AL021707, AL049844, AL121603, AL096791, AC003669, AF196779, AF011920, AL022325, AL049761, AL008583, AL031588, AC006077, AC007406, AC005089, AL049780, AP000553, AC009516, U64564, AC003025, AF139813, Z92542, AC005969, AC004228, AL022318, AC004929, AL031678, AC005901, AC005529, AC004408, U73023, AC007193, Z15026, AC004181, U95739, Y14768, AP000505, AC006965, AC004832, AC003082, AP000355, AF129756, AC006487, AC006991, U73331, AF061032, AC004651, AC004596, AC005300, AC002425, AC004638, AC006001,

HTUAA23	7161	575319	1 - 357	15 - 371	<p>AL031587, AL021808, AC005666, AC003035, AC004887, U02068, AC004496, AC005756, AC003041, AC004848, AC020663, AC004805, AL049869, AP000151, AC005390, AC005602, AL021918, AP000688, AP000501, AC003110, AC005091, AC004974, AL021877, AL033527, AB014077, AC004209, AC006139, AP000514, AC004263, AC004150, AL109627, AC003683, AC000385, AC007055, AL137434, L35485, AD000090, AC005796, AC004517, AL109963, AC004141, AC004522, AC006208, AC005839, AL049712, AL080243, Z80232, AL020995, AJ009610, U73024, AP001060, AL031296, AC006251, AC004659, AL031432, AC002504, AC008115, AC005822, AC006482, L44140, AC004168, AC006273, AL008726, AL034423, Z93020, AF207550, AC012099, AL121871, AF006752, AC005808, AC005072, AP000503, AC007544, AL031729, AC004552, AF134726, AC005235, L35681, AR060470, AC006111, U29953, AF037222, AC005568, AL031393, AL080242, AD000685, AC005067, AC004854, AP000210, AP000132, AL078581, AC006597, AC004893, AC006146, AC002546, AL021155, AD000092, AC005924, AC006539, AL030996, AC004918, AL034420, AL022101, AC004835, AC003085, AC002039, AC003663, AL049759, AC005914, AL021391, AC007314, AL049697, AP000248, AL049873, AL079342, AC004895, AC006050, AC007263, AL122023, AP000459, AC005874, AF134471, AC005010, AC005820, Y10196, AC005015, AL050307, AC006997, D88268, AC006926, AP000517, AP000010, AC003991, AC004543, Z84466, Z83844, and AL109847.</p> <p>AW105729, AA483223, AI609972, AI252176, AI254192, AA501791, AA583568, AA595656, AA557982, AI278972, AW150209, AA808982, AI267356, AI267450, T63954, AI421950, AI419337, AL133243, AC004686, AC005971, AC005102, Z98742, AL133245, AL121603, AL035587, U95742, AC002430, AC008101, AL031311, AC005330, AC007216, AC004099, AL022322, AC007384, AC016830, AC016027, AL008730, AL008718, Z84469, AC009247, AC004771, AL009181, AL049749, AL049776, AL049569, AC005280, L78810, AL133448, AL035681, AC004834, AC005529, U91327, AL096701, AJ003147, AC007227, AC005387, AC006946, AC004650, AC005914, AC004895, AC005089, AC005527, AL022238, AP000349, AL021808, AC005512, AC004675, AC004531, AC004985, AC002416, AC005484, AL031774, AL031589, AC005911, AL049636, AP000557, AC005261, AF111169, AC003029, AC006468, AC004025, U63721, AC006071, AC005288, Y18000, AC007546, AL031282, AF038458, AP000240, AC006211, AC005553, AL021453, AL050308, AL022320, AC000026, AP000514, AL031276, AL022313, AF165926, AC005839, AC006312, AC005828, AC006006, AL080243, AC005488, AC002404, AC002059, AL096712, AC005736, AC005913, AC006162, AC005821, AC005088, AC004913, AC002310, AP000356, AB023049, AC004967, AF053356, AL035422, AF196969, AL139054, AC007263, AC002314, AC005212, AC002425, AC005778, AL022316, AC005921, AP000553, AC004626, AP000692, AL031228, AC007193, AC006057, AC004263, AF001550, AC005755, AL035443, AC002470, AC004922, AC006487, AC005231, AL022163, AF030876, U62292, Z85987, AL109801, Z93017, AC007030, AC004213, AC004408, U80017,</p>
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HTUAA21	7162	575312	1 - 362	15 - 376	AW275432, AA428270, AW238137, AJ791659, AA372958, C75012, T40342, H65404, AL031587, Z93930, AC006367, L78833, AC002470, AP000088, AC005546, AF165926, U62317, AL096791, AL049694, AL024507, AL024498, AC007308, AL024474, U91321, AL022316, U73634, AP000030, AC007785, AP000042, AP000110, AC005081, Z95113, AC007537, AC004821, AC007546, AL080242, U47924, AC004816, AC006538, AL078581, AL023876, AC006044, AC005520, AC020663, L44140, AC004699, Z98941, AC004890, AL022476, AC006450, AF001552, AC004477, AF139813, AC005828, AC004851, U91322, AP000501, AC005082, AL133445, AC007934, AL122020, Z98048, AC005736, AL121652, AC004228, AC004150, AC005412, AC006441, AC003029, AL109758, AC005751, AC005332, AC004973, AC005821, Z97054, AC005089, AC005562, AC005335, AC003689, AC002070, L78810, AC008372, AP000704, AC004223, AL031274, AL049745, AL035086, AC006203, AP000152, Z84487, AC007066, AF196972, AC007207, AC006249, AF134726, AL031255, AP000555, AC005697, AL080243, M89651, AC016025, AC006512, AC003025, AC005011, AC005295, AC004997, AF055066, AC004659, AL021155, AC002996, AL133163, AC006251, AP000215, AC007151, AC004752, AC005664, AL022238, AC002565, AC006211, AL139054, AC007685, AL020995, AE000661, U91318, AC006547, AC005514, AF001549, AL022320, AC004841, AC004067, AC005102, AC004263, AL009031, AC005585, AC004686, AC002326, AL035413, AC004983, AL049758, AL022171, U63721, AC002991, Z94056, Z97989, AC004084, AC005288, AC003108, AC006261, AL049697, AC005200, AF111168, AL023494, AC004125, AC003665, AC000075, AC005940, AL049757, AC005084, AF109907, AC005231, AC008126, AC002553, AC005839, AP000348, AC015853, AC004832, AC005523, AC006285, AP000557, AC007731, AC004526, AF047825, AC000353, AC007540, AL031291, AC005067, AL022394, AC002350, AC005500, AC007279, AC005015, and AC003102.
HTUAA11	7163	967919	1 - 161	15 - 175	

HTUAA06	7164	960761	1 - 370	15 - 384	T81597, AI961957, AC006241, AL031427, AC002302, AC005015, AC006084, AL049569, AL049761, AC003982, AC003029, AC004820, AC005920, AC005669, AL022336, AC002425, AF196969, AC003003, AC002551, AL109827, AC005065, and Z97056.
HTUAA02	7165	921277	1 - 243	15 - 257	
HTSH15	7166	576030	1 - 359	15 - 373	
HTSHC81	7167	778008	1 - 388	15 - 402	W40507, AW371697, AW371691, AW371690, AA325283, AA205748, AL041320, AI751044, and AB002323.
HTSHB38	7168	709445	1 - 494	15 - 508	AA458722, AA457463, and AC005277.
HTSHB18	7169	666569	1 - 307	15 - 321	AI743432, H82249, Z41469, R42880, and AI217259.
HTSGZ92	7170	975082	1 - 285	15 - 299	AI804747, and AL035413.
HTSGQ88	7171	576077	1 - 418	15 - 432	
HTSGQ42	7172	576078	1 - 269	15 - 283	
HTSGM53	7173	728289	1 - 408	15 - 422	H82292, and H82290.
HTSGL89	7174	787027	1 - 553	15 - 567	R96037, R96038, AA678616, AI889426, AI250747, AI223735, AW069227, AW151870, AW151201, AA741301, AW084004, AI366555, C16638, AL039761, AW078821, AW390284, AI347665, AI254440, AA644223, AA581498, AA084880, AI472736, AL035893, AW440568, AI246061, AA678932, AW081610, AA653291, N67313, AA652763, AW243945, AI251353, AI889995, AA032020, AW086117, AW086251, AI254781, AI255012, AI252979, AI254626, AI284684, AW086334, AA126814, AI568659, H09639, H28464, AI254153, AI358776, AA599712, AW438765, AA721530, AA309362, AA862312, AI249688, AA995373, AW086356, AI251968, AI251976, AA632565, AI254673, AI241970, AW086319, AI223508, AI254658, AI252933, AI251598, AI251298, AI252207, AI251380, AA565911, AI417469, AI582583, C15504, AA721523, AA371410, AI732671, AW327673, AW068596, AI961983, AW237905, AI791971, C14627, AI038304, F26582, AI754567, AI569100, AW192599, AI754105, F32248, AI755214, AI270149, N87435, H44471, AA747757, AI251949, AI255059, C14796, D51877, AI080307, AI251034, AA365318, AW086383, AI255003, W32993, AI520967, AW086335, AW019964, AI864620, AC005255, AL031602, AC005071, AC004967, AL109853, AC006084, U95742, AC006241, AC009891, AC006236, AC007216, AL031311, AC002404, AC005209, AL135960, AJ131016, AP000745, Z56114, AL034451, Z83838, AL096757, AL021391, Z93930, U91321, AL035089, AP000558, AC005262, AC007151, AC007365, AC005523, AP000557, AC006571, AC009516, AL110279, AC004975, AL008735, Z69651, AC004675, AJ251973, AL022326, AL096791, Z94160, AF088219, AC002984, AF196969, AC004552, AC002527, AL022320, AL035088, AC004234, Z93241, AP000550, Z98946, AC005736, AL031664, AC006947, AC007688, AL009183, AL035455, AC007546, AC003101, AP000704, AC003950, AF055066, AL009181, AC005899, L78833, AC004655, AC003108, AC007242, AC005070, AC004492, AL121655, Z68284, AC004259, AC006198, AL031843, Z93244, AC005225, AC007386, AL109801, AC005014, AF031078, AC008394, AC006511, AC004703, AC007204, AC006367.

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HTSFU94	7175	793056	1 - 443	15 - 457	AW270091, AW293640, AI198447, W72558, AI291780, AA971480, AA134809, AL568769, AI052173, W76553, F25233, W94887, D45557, F35717, AF140690, and AF140691.
HTSFF64	7176	747003	1 - 398	15 - 412	HI16146, H45145, AW245497, AA310767, AA029963, AL042338, AW163308, AF070605, AF034373, AC005014, and AL137587.
HTSEX79	7177	524280	1 - 239	15 - 253	AI624551, AA829193, AL044271, AA483606, AA516193, AA570740, F00564, AL048275, N72170, AA568204, AI682899, AA730872, R95840, AA654874, AA206475, AI433104, AA484738, AA470567, AA502532, AW023111, AI915081, AA599069, AA515723, AA578627, AA516190, H53217, H60249, N32878, F13808, AW265735, H78898, H66577, AA584690, AA630122, N27751, W20344, AA084609, AA515733, AA706628, AI445460, AA338233, AA525830, AA601728, AA479751, F01666, F01532, AI569363, AW068580, AA714110, AL045476, F37292, AI587349, AI054339, AA001591, AA970967, AC002544, AC007242, Z84467, I34294, AC020663, AC006454, AL031003, AC005531, AC004526, AL020997, AC005280, AC002316, AC006445, AC006064, AF196969, Z99129, AC005318, AC002117, AC002477, AC006077, AC003663, AL031282, AC006285, AC002347, AC005015, AC002470, U82668, AC005529, Z95114, AF134726, Z98047, AL121769, Z93017, AC004991, AC003043, AC004186, AP000501, U91326, Z84496, AL135744, AP000114, AL031427, AL035398, AC007382, Z97353, AL009181, AC005082, AL109984, AP000689, AP000697, AC006449, AC005971, AC007011, AP000212, AP000134, AC009516, AC005726, AC004999, AL022316, Z95115, AC006111, AC004531, AJ236701, AC003029, Z99754, AP000517, AP000553,

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1/TSEW02	7178	920963	1 - 477	15 - 491	AI632021, AI522132, AI468255, AI473408, AI242842, R67081, and AI635775.
HTSAA20	7179	836021	1 - 403	15 - 417	AA295823, and H63678.
HTOJZ05	7180	869900	1 - 496	15 - 510	
HTOJV25	7181	456941	1 - 346	15 - 360	
HTOJT60	7182	740599	1 - 291	15 - 305	R68381.
HTOJN69	7183	869925	1 - 474	15 - 488	T84775.
HTOJM95	7184	795719	1 - 494	15 - 508	AI284640, AI755214, AI754567, AL046409, AI963720, AI334443, AA602906, AW341903, AW193265, AI270117, AW021917, AI590458, AL079645, AA491814, AW020088, AI962030, AI250552, AI244127, AI590499, AI613280, AL046457, AI350211, AI733856, AW023111, AI251284, AI251034, AI251203, AI284543, AW275432, AI254770, AI281881, AI874341, AA622801, AW406755, AL037683, AI246796, AI926728, AI431303, AI366555, AA525807, AA651632, AW237905, AI064918, AI925579, AI061313, AI354423, AA653139, AI267269, AA704393, AI249853, AI609972, AW270385, AA502985, AL119649, AW276435, AA747757, AW328000, H07953, T74524, F36273, AI345681, AL044940, AA601376, AA515905, AL031295, AC007225, AP000692, AC004890, AL049694, AC002300, AI031120, AC006285, AL035405,



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HTOJL36	7185	866492	1 - 1665	15 - 1679	

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HTOJF70	7186	457041	1 - 459	15 - 473

HTOJB05	7187	932423	1 - 455	15 - 469	N90622, and H85692.
HTOIZ49	7188	586144	1 - 399	15 - 413	
HTODX57	7189	735004	1 - 327	15 - 341	T96088, T80652, and AC004143.
HTOIQ30	7190	584928	1 - 393	15 - 407	W87719.
HTOIL74	7191	765840	1 - 553	15 - 567	W69857, AA552546, AA029444, W69750, AB023154, and AF086290.
HTOIK90	7192	557829	1 - 401	15 - 415	AL050305, and AL031007.
HTOIJ84	7193	783212	1 - 486	15 - 500	H03759, and R72987.
HTOIH68	7194	753595	1 - 428	15 - 442	T48180.
HTOIH09	7195	961168	1 - 176	15 - 190	T20251, and AC005071.
HTOIF08	7196	959992	1 - 560	15 - 574	H42823, W39164, N41131, and AF146689.
HTOIA89	7197	787088	1 - 479	15 - 493	H63865.
HTOIA82	7198	844319	1 - 401	15 - 415	H04212.
HTOHZ59	7199	869950	1 - 504	15 - 518	AA132611, AA225871, and AL035697.
HTOHX62	7200	537358	1 - 254	15 - 268	
HTOHT93	7201	791459	1 - 427	15 - 441	AA284052.
HTOHR03	7202	924976	1 - 591	15 - 605	AI341328, AW274848, AI638171, and AI992100.
HTOHN89	7203	956264	1 - 415	15 - 429	W91885, and T98858.
HTOHI14	7204	659280	1 - 486	15 - 500	H19673, H41120, AI793195, AI744281, and AL121754.
HTOHH78	7205	963216	1 - 2033	15 - 2047	AA143556, AA146625, AI284640, AL046409, AI613280, F36273, AI281881, AW193265, AI610159, AI963720, AI431303, AW276827, AI350211, AA720702, AW419262, AL048925, AW303196, AW274349, AI334443, AW301350, AA491814, AI619997, AI085719, AW021583, AA610491, AA828704, AA513141, AW270270, AI149478, AA581903, AL119691, AI499503, AI688846, AI471481, AW406447, AW265009, AW073470, AW029038, AA649642, AW193432, AI061334, AA843450, AA613345, AI053672, AW338086, AW162049, AI929531, AI754658, AW406162, AI610376, AI679782, AI962050, W79504, AW072923, AL044940, AI434706, AI305547, AI355206, AI168185, AI865905, AW089322, AI339850, AI110770, AW406755, AI590958, AI133164, AI148277, AL138265, AL046205, AI341664, AI471572, AA159978, AL046898, AA758934, AI570261, AI685198, AW088616, AA493708, AW169136, AI590689, AI289067, AW162489, AI732186, AI246796, AI754955, AL048626, AI367497, AI633390, AI358229, AA521323, AI049722, AI358343, AI653886, AI871722, AI860020, AW166815, AL038785, AW088058, AA598586, AI571512, AL138455, AA679124, AI674873, AI918421, AI282310, AI365988, AA601253, AW022379, AA126051, AA126035, D82290, AW168342, AL040130, AI251002, AL120687, AI921476, AA507824, U18398, AC004963, AF077058, D83989, X75335, AF015152, AF015151, X54175, X54178, U57009, X54181, AF015156, U57005, U57007, X55925, U18394, U18391, U18392, U57006, U57008, X53550, U18393, AF015157, X54180, I51997, U18390, U18396, M87919, X55923, U18387, X55931, U57004, X54176,

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HTOHG68	7206	964961	1 - 465	15 - 479	AA757866, AT700109, AW419262, AL118991, AL431303, AL120086, AA493136, AW022608, AA588001, AW263415, AL537772, AA081462, AA515334, AL369580, AA908687, AA568869, N54894, AI963221, AA618452, W01230, N49368, AL457397, AW275971, AA497023, AL119713, AL309389, AL045813, AA613249, N35306, AI499588, AA524821, AL523316, AL285753, AL046549, AI924948, F05324, AI962874, AA550797, AA504877, AW004911, AI609464, AL042756, AA533333, H50970, AI925579, AI028498, AI733856, AC007666, AC004019, AP000306, U95740, AP000047, AC004594, AP000115, AC005353, AL031390, AC000052, AC005912, AC005625, AC004945, AL050323, AL031224, AL035072, AC004913, AC007225, AL135922, AL024497, AC005670, AL031311, AC004263, AC005789, AL034394, Z94721, U62317, AC007151, AC005736, AC002470, AC005406, AC005839, AC005041, AC007539, AC008040, AC005661, AL049798, AL117344, AC005191, AC004149, AC004227, AB020873, AC004889, AP000074, AL136295, AC004000, L78810, AL008718, U65406, AC005209, AL031680, AC007008, AC004596, AP001116, Z82201, AL031666, AC007377, AC005279, AC007685, X78901, AC004996, AC005228, AC004933, AL021528, AC006006, AC005988, AC007637, AC004782, AC006369, AC005908, AL096701, AL109827, AC005203, AL049540,

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HTOGU88	7207	558488	1 - 346	15 - 360	AL1417120, AA483778, AA758129, AL367757, AL248999, AA358028, AA287676, AA479947, AA758144, AL540846, AA252123, AA227893, AA505839, AL468785, AA354625, AA282788, T89256, AA257010, AA490481, AL572545, AA188716, AL870449, AC008394, Z93022, AC003084, AL034399, AC004539, AC002349, AL020992, AC007567, X81002, AL033403, AL121694, AC007786, AC004485, AC005161, AC005297, AC005191, Z95118, AC003109, AL049563, AL022721, AC007857, AC004775, AF047668, AL035258, AP000496, AC009248, Z99571, Z68332, AL109659, AF029308, AC005189, AC004535, AL050401, AB020876, AF002997, Z92844, AC006287, AC005908, AC004026, AL117375, AC005064, AL078600, AL133277, AL080312, AC003098, AF172277, AB017651, AC005588, AC004070, Z82211, AL049641, AL022310, AC007447, AC002085, AC002038, AC002383, AC006070, AF198097, AL049734, AC003692, AC005050, AC008064, AC005076, Z81008, AL109807, AL079305, AP000545, AL121782, AL032822, AL132985, AL122126, AL050308, AL008722, AC007090, AC003687, AL031776, Z70233, AC007204, AC007655, Z70226, AC007254, AL096862, AC007628, AC002468, AL079334, AC005062, Z94721, AL034428, and AC005922.
HTOGU78	7208	529798	1 - 195	15 - 209	
HTOGU77	7209	523533	1 - 119	15 - 133	
HTOGC91	7210	790438	1 - 548	15 - 562	H06214.
HTOFV57	7211	529614	1 - 171	15 - 185	
HTOFV08	7212	960203	1 - 178	15 - 192	
HTOFU55	7213	732454	1 - 425	15 - 439	W90433.
HTOFT20	7214	527938	1 - 47	15 - 61	
HTOFS74	7215	765918	1 - 161	15 - 175	T64509.

HTOFO18	7216	911756	1 - 2163	15 - 2177	<p> AI821714, AI792133, AI791913, AA610491, AI821785, AL046409, AI431303, AI345157, AI963720, AI357823, AI284640, AA680243, AI732120, AL037683, AI305766, AL037632, AW270258, AW088846, AL079645, AA634786, AI357976, AI885488, AA602906, AA651639, AI754336, AI733856, AA469327, AI270117, AI753488, AL138455, AI564185, AI061313, AI358384, AW193265, AI053623, AI054333, AI354423, AA490183, AI613280, AA653612, AL048925, AI754253, AW302903, AI635819, AI696962, AW021917, AL119649, AI755214, AA303007, AA857486, AI754653, AW103758, AI040051, AI246796, AA846935, AW189068, AW271904, AI174230, AA586661, AI445815, AW029095, AI754105, AL118991, AA622801, AW439558, AA468022, H09744, W23546, AA613203, AI919265, AA347927, AW327868, AL040054, AW131249, AA653139, AA640986, AW238278, T74524, AI306553, AA720732, AI110770, AI350211, AA347930, H05940, AL042753, AW304580, AI870197, AW004911, AI761471, AI809818, AL042756, AA507824, AA613227, AA515728, AI375710, AA572813, AW191886, AW238016, AI469968, AA192278, AI859834, AI036283, AI366555, AW028429, AL133668, AW276827, AA877817, AA833875, AI457397, AA833896, AL041706, AA602951, AI587583, AI254913, AI587565, AA665645, AW020088, AA523837, AI805363, AI623764, AW271917, AA908687, AW265009, AI038990, AI358501, AA572685, AI079389, AA579566, AI133164, AI821931, AA658918, AA613345, AL121757, AC006026, AL049591, AC002055, AC007786, U66061, AC004908, AL035073, AC004914, AL078621, AC002980, AC007544, Z75407, AC008169, Z73988, AC006512, AL050347, AC003958, AC004160, AL021939, AL049875, AL031259, AL035667, AC005383, AC005598, AC005740, AC000044, Z80901, AC000034, AL021026, AC004985, AC005521, AC008124, AC004066, AL021978, AC007221, AF029308, AC004738, AL109865, Z68192, AP000080, AL139054, AC005921, AP000108, AL122003, AC004887, AC007680, AP000144, AL109967, AC008069, AC002068, AC005284, AC007002, AC002115, AC006262, Z99758, AL034379, AC006285, AL031281, AL024509, AC004967, AL096701, AL121915, AC016025, AC006960, AL049776, AP000512, AF017104, AC006064, AC004890, AC007242, AC005624, AC005696, Z99716, AC002551, AC005368, D87003, AP000966, AC006372, AC016831, AL109952, AL049643, AL023575, AC002064, AC004859, AC003962, AC004815, AP000281, AC007736, AL133312, AC005519, AC007128, AC005562, AC002073, AP000039, AC006071, AC002425, AL049646, AC005529, AC005899, AC004910, AC004648, AF064858, AL035659, AL050307, U78027, AB023049, AL109628, AC003002, AC002558, AC002310, I51997, AF019664, AC002301, AC012039, AC006509, U07563, AL035422, U73023, U57007, X55925, AC003043, AC009248, AC009396, AL031673, AC004655, AF015147, Z98200, U18391, AC005722, AC006211, AF015151, AL133445, AL021997, AC006480, AL031680, AC000026, U18392, AC006030, X54176, AF047825, AC009320, AF129756, AC004514, AF015148, AL035072, AL117354, AC005520, AL050306, X54180, U18394, AC005043, AC002553, AC005736, AP000509, AC002059, AC002477, AC000003, AC007055, X54181, X53550, AP000165, AL031650, U57006, AC005772, AC004217, </p>
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HTOFC06	7217	960546	1 - 270	15 - 284	AI766308.
HTOEX28	7218	936543	1 - 541	15 - 555	W67985, AI806720, AI819360, AA219394, AI743193, R72848, AW117312, H42783, AA889684, AA352279, AI952783, AI818791, AA909553, AW409898, AA282827, AA775865, AW409899, AB033018, and AF161391.
HTOEY91	7219	509938	1 - 460	15 - 474	
HTOET61	7220	742164	1 - 445	15 - 459	AA258041, AA290938, and AA504566.
HTOEE28	7221	685375	1 - 312	15 - 326	
HTODM08	7222	960113	1 - 388	15 - 402	N56666, and AI460076.
HTODL10	7223	968395	1 - 407	15 - 421	AA143085, and AB023227.
HTODD59	7224	738532	1 - 388	15 - 402	R81985.
HTODA31	7225	698400	1 - 454	15 - 468	AA236974, AA235912, and AB017915.
HTOCK85	7226	521944	1 - 339	15 - 353	AL043144, R96621, AA367672, AW381823, AA904211, AI271762, AI567391, AA225100, AW103251, AA297011, H07953, AA102737, AA554659, F13749, AA715284, AA715344, AA715527, F17700, AI246061, T47124, AA084609, AI251241, AA279919, AA122307, AA804694, AI310670, AI349130, AA568204, AA570740, AA715338, AA483606, AA354141, AA721523, AA669185, AA302661, AI251944, AA019939, AA809807, AA420549, H54792, AA827904, H68343, AI889579, AA326904, AI620415, AA583386, AA44166, AA837715, AA584765, T52772, AI446336, F01666, AL039930, AI310787, T54783, F35902, AA598605, AA878407, AI306717, AI904944, AA719845, AA640776, AA056248, AA835889, AA078509, T70299, AA091982, N54397, AA804334, AA728911, AI613389, AA658934, AI791185, N92039, AA302982, AA577824, H62550, AW404225, AW051819, AA381762, AA658477, AI217131, AA604831, F03672, AA633565, AI135643, AW023111, AA493947, AA297664, AI821823, AA525331, AA551268, AA708753, AA975894, T40629, AI821921, AI926909, AI821076, AI184061, T50676, AW163763, AA665532, AA57982, AI683426, H86221, AI925462, AI054090, AA744048, AA092862, AW264901, H79586, AP000045, AL022318, AC007216, AC005529, AF196969, AC005332, AL136295, AC007066, U95742, AC002350, AC005527, AC005488, AP000300, Y18000, AC007308, AP000030, AC005015, AP000501, AF207550, AC005231,

HTOCK73	7227	870004	1 - 378	15 - 392	AC003665, AC008372, AC005399, AL049869, AC000353, AL049540, AC005971, AC004990, AC002544, AP000503, AF134726, AC007917, AL035659, AL050318, AC005790, AL031281, AP000113, AF047825, AB020865, AC007773, AL121825, AL023575, AC005696, AC003042, AP000692, AC002045, AL035683, AC005694, AC004966, AL133448, AC004821, AC004257, AC002316, AC005212, AC005519, AL049872, AC007279, AL096791, AL049757, Z93930, AC005940, AC004448, U52112, U91326, AC005793, AP000547, AC004517, AC005578, AC005225, AF129756, AL009181, AC002039, Z84487, AL049636, AC006023, AL135744, AC006057, Z98742, AL035410, AC006014, AC005581, AL022336, AL031587, AC004883, AC002477, AL022476, AC004890, AC005057, AC006001, AC004150, AP000116, Z98884, AP000689, AC016831, AL132712, AC004253, AL024498, AL121658, AC004859, AF165926, AC005808, AC005901, AP000065, AL049569, AC005786, AC005531, AC006130, AC010077, AC005274, AL021393, AC006241, AC002470, AP000356, AC004955, AC005046, AC004491, AL121653, AC005081, AC006538, AC005335, AC004796, AF001549, AC006238, AC004878, AF196972, AC004589, Z84484, AC020463, AL022320, AC005291, U91321, Z99716, AL008582, Z83822, AC004601, AC004383, AL049793, AC005300, AP000505, AL022326, AC005920, AL117330, AC005011, AC007934, Z84466, AC005778, AC005412, AP000555, M13792, AC005004, AF053356, U62293, AC000025, Z83826, AC009509, AL031284, AC002312, AL022721, AC007057, AC004814, AC002117, AC005193, AF045555, AL096701, AC005538, AC003043, AJ003147, AP000359, AC007325, AC005330, U96629, U80017, AC007225, AC003047, AL049712, AC006120, AC012384, AC005837, AC006966, AB023049, AL031848, AC005071, AL031311, AC005480, U73167, AC002565, U90094, AL031427, AL080243, AL109627, AC004386, AC004099, AC002425, D86995, AC005899, AC005049, AC006211, AL121655, AC005878, AC003101, AC007227, Z82178, AC002301, Z98036, AC005684, AC006111, AC005031, AL049766, AC012330, AC005874, AF134471, AC006312, AC004832, AP000553, AL008719, AL023553, AC008044, AC004770, AL049795, AC004223, AC002310, AP000133, AP000211, AL033527, AC004686, AC005624, AC006449, AC002091, AC004805, Z93023, AL031257, AC007371, AD000092, AC006088, AP000250, AL021546, Z85986, L48038, AC005921, AL035249, Z82174, Z95114, AL121652, AC005913, AC004084, AC004531, AL035071, AC005067, and AC002059.
HTOCK73	7227	870004	1 - 378	15 - 392	
HTOCK14	7228	529958	1 - 286	15 - 300	
HTOCK03	7229	925368	1 - 111	15 - 125	
HTOCA55	7230	732469	1 - 384	15 - 398	Z93784.
HTOBE60	7231	742315	1 - 457	15 - 471	T98484.
HTOBC63	7232	530283	1 - 176	15 - 190	
HTOBC26	7233	870011	1 - 245	15 - 259	
HTOBA33	7234	965151	1 - 606	15 - 620	AA262379, R45037, AF745363, AL224135, AL127213, AL17634, AL804049, AL167433.



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HTOAT88	7235	530183	1 - 398	15 - 412		
HTOAT81	7236	530185	1 - 217	15 - 231		T90102.
HTOAT68	7237	530187	1 - 304	15 - 318		
HTOAT66	7238	530188	1 - 344	15 - 358		
HTOAT63	7239	523754	1 - 365	15 - 379		
HTOAT57	7240	870017	1 - 114	15 - 128		
HTOAT50	7241	723595	1 - 335	15 - 349		
HTOAT43	7242	529840	1 - 122	15 - 136		
HTOAT35	7243	521914	1 - 204	15 - 218		
HTOAT28	7244	530191	1 - 403	15 - 417		
HTOAT27	7245	682115	1 - 386	15 - 400		AC004928.
HTOAT06	7246	960581	1 - 227	15 - 241		AW406283, AA481083, and AA334330.
HTOAO63	7247	745545	1 - 653	15 - 667		T84893, and AC007681.
HTOAO01	7248	921744	1 - 351	15 - 365		H00926.
HTOAM08	7249	960122	1 - 292	15 - 306		AA412441.
HTOAL84	7250	783261	1 - 107	15 - 121		H63922, AI080109, and AA410506.
HTOAK39	7251	709579	1 - 479	15 - 493		T73359, and AC005776.
HTOAI51	7252	529553	1 - 275	15 - 289		Z83848.
HTOAI25	7253	529556	1 - 347	15 - 361		
HTOAI15	7254	529557	1 - 293	15 - 307		AL031259, and AL132641.
HTOAO05	7255	932732	1 - 364	15 - 378		AA120896.
HTOAA73	7256	764707	1 - 430	15 - 444		T91665, and D44743.
HTJNX95	7257	795376	1 - 494	15 - 508		R17461, and AA614012.
HTJNT65	7258	771995	1 - 597	15 - 611		AA031753, AI953410, AI273879, AA486535, AI970601, AI804913, N71976, AA252687, AW022153, T95753, AI189228, D58604, R06245, AA470886, AA620519, AI374732, C16129, AA737971, AA043942, H02570, AI359851, AI423638, H52318, AI858710, AA503361, AI420960, AA135778, AL037668, AW151753, AI346020, AI051129, AW440638, AI768841, AA450210, AA399154, AA610484, AA758319, AA865664, AA528037, AI914093, AA975822, AA045559, AA551664, AW002772, AA728996, AI261994, AI431974, AI003695, AW264165, AA971504, AI864825, AI419538, AI422333, AW237522, AI590661, AI346915, AW073186, AI952777, AI424070, R76870, AI094960, AA039924, AI983928, AI337380, AA135734, AA366382, AI687114, R99970, AW024883, AA481014, AI719088, R23164, AI758843, R91051, D20914, R76869, H03271, AR025395, AR025400, AR025410, AR025393, AB011145, AR025403,

HTJNF11	7259	966217	1 - 786	15 - 800	AR025409, AR025399, AR025414, AR025398, AR025415, and AR025406.
HTJNZ89	7260	973076	1 - 372	15 - 386	AA746300, and AC006274.
HTJMU86	7261	870312	1 - 594	15 - 608	AA279274.
HTJMQ90	7262	974496	1 - 210	15 - 224	AF128525.
HTJML71	7263	759890	1 - 457	15 - 471	AA250886, and AC003042.
HTJMF56	7264	733444	1 - 469	15 - 483	N33555, AL400762, and H96299.
HTJAE78	7265	773609	1 - 390	15 - 404	AL022237.
HTJAD50	7266	724438	1 - 307	15 - 321	R08826, and W60035.
HTHDS68	7267	753137	1 - 338	15 - 352	H78116, R96198, AA826048, AW161016, AL337065, AA593462, AL635819, AA482794, AW023511, AL002966, AA339592, AL117354, AC007327, AL080277, AF067844, AC004901, AL049869, AL049776, AC004000, AL034423, AC005288, U81833, AC002350, L78810, AL109627, AC002470, AC002312, AC002364, AC005808, AL022578, AL109801, AL021807, and AC005251.
HTHDR27	7268	578830	1 - 654	15 - 668	H58694, and AA676340.
HTHDQ05	7269	932174	1 - 289	15 - 303	AL500356.
HTHDM10	7270	964906	1 - 399	15 - 413	AA460795, AA460376, AA779701, and AA460360.
HTHDL30	7271	578894	1 - 416	15 - 430	AA535817.
HTHDJ93	7272	792443	1 - 540	15 - 554	AA523829, AA662017, AA652348, AL270360, AC005822, AL049635, AF053356, AL049636, AC007314, and AC007221.
HTHDF13	7273	490673	1 - 604	15 - 618	T06598, AW304536, AA643451, AL521525, AA643441, AL926102, AL537368, AW020150, AA877992, AA302979, AA995189, AL061468, R82650, H59173, AC005037, AC006285, AC005871, AL122023, AC007686, AC004003, AL031255, AC005288, AC002477, AF117829, AL049694, Z94044, AL121658, AC005531, AL022240, AL109798, AC006482, AC009248, AC002350, L78810, AC005829, AL020995, AC005747, AC004963, AC007226, AC005067, AC006075, AL022320, AL049872, Z86090, AF134726, AC006312, U63721, AC005666, AC006006, U47924, AC004560, AL031311, AL031680, AL133163, AC002367, AF196779, AC006480, AL109758, AC004975, AF111168, AL080243, AL122020, AC005048, AL121603, AC006318, AP000305, AC002492, AL049869, AP000510, AC005922, AP000047, AC007546, Z69890, and AP001053.
HTHDE83	7274	516372	1 - 400	15 - 414	AL049835.
HTHDC07	7275	953604	1 - 521	15 - 535	
HTHCV69	7276	973309	1 - 329	15 - 343	
HTHCU42	7277	578861	1 - 346	15 - 360	
HTHC072	7278	578758	1 - 374	15 - 388	
HTHC045	7279	722029	1 - 147	15 - 161	

HTHCK89	7280	694051	1 - 604	15 - 618	<p> AL036665, AL042373, AI923052, AI754170, AW069412, H07953, AI687343, AW026305, T74524, AI421950, AI419337, AW272815, AA581903, AI801505, AI361090, AA579419, AI042667, AL042670, AI612142, AW275971, AI613389, AA602906, AI889440, AI133083, AW270385, AI369580, AA714288, AW407632, AI078409, AA502991, AI307201, AW270258, AW068596, AI118991, AI583252, AA483606, AA643770, AW338035, AW338021, AI469599, AA916430, AA570740, AW238278, H73550, AI753672, AW021583, AI609972, AA683069, AA449979, AI753488, AA534047, AW189068, AI275982, AL042753, AA719073, AW265688, AA455483, AA515728, AA164955, AA937809, AI040051, AI755202, AA622801, AI066646, AW021917, AI755057, AI890324, AA226153, AA635433, AI345654, AL042756, AL047349, AW162288, AL048925, AA687730, AW084445, AA568204, AA649642, AI306232, AI251576, AA714011, AI708009, AA557945, AA668148, AI821714, AI792133, AI791913, AL045813, AA832016, AA515351, AI491765, AA483256, AW274191, AI889579, AW237905, AW023975, AA805841, AA504818, AA315361, Z99754, AC004652, AC005486, AL021154, AC007536, AF165926, AL132777, AC005261, U85195, AE000658, AJ011930, AC006252, AC005377, AC005082, AL021707, AL049760, AC007435, AL020997, AL133445, AC006487, AC004885, AC000025, AF047825, AC005527, AC002472, Z93244, AC005529, AC003108, AC007055, AL031589, AC006312, AC005399, AC007731, AC005670, AF067844, AC005500, AC007011, AC005519, AC007786, AC005736, AC005971, AL050318, AP000046, AP000114, Z83847, AC005330, U78027, AC005006, AC007312, AC004526, AC006077, AL035422, AL022312, AC004805, AC006241, AC007226, Z82206, AC005544, AF064861, AL022323, U63721, D86995, AL031681, AC007938, AC004755, AL031311, AL031283, AC004653, AL022724, AC005484, AC005907, AC005005, AC007664, AC002310, AC005329, AL031295, AL034548, AC005624, AC006208, U47924, Z83308, AC006449, AC007225, AP000556, AL121825, AL022320, AP000255, AD000671, AC008125, AC006111, Z98742, Z85987, AP000042, U66060, AC002404, AC007052, AC005274, AC004000, AP000510, AC010077, AC003043, AF207550, AL024498, AC005088, AC005943, AP001052, AD000092, AC003962, AL033527, AC005776, AL035088, AC005666, AC004842, AC005207, AL035071, AP000135, AC000134, AC003029, AC005067, AC005940, AC004491, AC007151, U62292, AL034423, AC002070, AC002430, AC003101, AC006023, AP000031, AC007193, AF196779, AC002314, AC005200, AC005015, AL109758, AD000812, AC004913, AL049780, AL035555, AC016025, AC003007, AC007384, AC003684, Z98036, AL035697, U95740, AL022238, AF001549, AC005694, AC004253, Z84469, AC006511, AL023284, AL034420, AC002429, AC005057, AC004408, AC004156, AL049643, AC005412, AC000353, AP000558, AC006088, AC004983, AF165176, AL031432, AC004477, AL035587, AC000003, AF015720, AC004922, AC005921, AL133245, AF053356, AC002316, AC007565, AC004033, AL035407, AL031659, AC008018, AL031346, AC009516, AL022721, AC005841, AC002306, AC006001, AC005324, AF030453, AC007546, AL049570, AC005102, AJ229041, AC002126, AC002288, AP000513, AC004257, AP000359, AL079340, AC009044, AL022322, </p>
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HTHCG74	7281	578839	1 - 103	15 - 117		
HTHBY73	7282	946168	1 - 347	15 - 361		Z43611, H64102, T35364, T29948, Z43604, and F07345.
HTHBW81	7283	519640	1 - 445	15 - 459		
HTHBW64	7284	746955	1 - 555	15 - 569		H03259.
HTHBU25	7285	961627	1 - 541	15 - 555		H17221, H24439, R24985, R72995, AA447349, and AA984682.
HTHBT36	7286	458387	1 - 304	15 - 318		T69517, AP000274, and AP000104.
HTHBM85	7287	790305	1 - 471	15 - 485		AL040192, T77395, AW247555, F13355, H05582, AA143664, R12214, F08295, H06392, Y16522, AF156557, AF074953, AL109665, AL109664, AF156561, AF156558, and AF156559.
HTHBM60	7288	739707	1 - 397	15 - 411		AA233203, AA233119, AC004214, AB000880, AP000507, and AB000882.
HTHBK64	7289	573926	1 - 311	15 - 325		AW188742, AJ049955, AL267884, AW021116, AL431513, AL917132, H71678, AA578621, AL984168, AA502532, R64617, AL347603, H29914, AW245354, AL301373, AL446259, W01359, AL915081, F31811, AW162750, AA654482, AL912401, AA988600, AW023111, AA971196, N68472, AW156980, F24745, AL734837, N72717, AL961983, AL417469, AA558404, AA182731, AA593257, M87889, AL049759, AC002492, AC006965, AC002302, AC008101, AL031283, AL035405, AF047825, AL035659, AL035071, Z95115, AL008715, AL049869, Z98950, AL049697, Z82206, Z83838, AC005086, AC008134, AC005480, Z93241, AF196972, Z95116, AC006312, AL133245, AC005755, AC004531, AL022336, AL022313, AC007676, AC006480, AL139054, AC004966, AL096791, AL049760, AL049834, AC007055, AP000248, AL022320, AC002551, AP000689, AL031848, AP000252, AP000557, AC002314, AC007688, D87011, AB016195, AC005207, AC002404, AC005231, AP000502, AL031311, AC008033, AC002477, AC008040, Z68273, AC005529, AC004216, AC006501, AC002365, AP000212, AP000134, AC002504, AL049780, Z83844, AC005544, Z84469, AC004854, AD000671, Z97630, AC007308, AC005102, AC004217, U95741, Z98884, AL133448, L78833, AC004883, AC003070, AP000696, U10087, AC005821, AP000036, AC004955, AC002565, AC007011, AF031078, AP000100, Z94162, AF088219, AC006509, AL109865, D87675, AL049766, AC002984, AF030876, AL031594, AL031602, AC004859, AC004967, AL031281, AC005049, AC004849, AC005476, AL049569, AL049873, AC005274, AC007292, U85195, AB003151, AC000353, AC005089, AC004143, AC009247, Z84487, Z99128, AF001549, AL121658, AC002312, AC006088, AL022323, AC004876, AC007842, AC004656, AL022165, AC005880, AP000098, AC005300, AC003962, AF165926, AC002425, AC006117, AC005484, AC009721, AC008009, Z95114,

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HTHBK47	7290	526705	1 - 298	15 - 312	AA085410, AI417464, AA857673, AL277373, AL439816, AL278440, AA490602, AA480162, AL119411, AA663472, AL620992, AA657835, AA772016, AA743811, AA719208, AL051037, H79308, AA992126, AA121910, AW157005, AA865262, AL028510, AW019964, AL547110, AW328446, AL332615, AA808036, AA610313, AA079076, AI860535, AA223512, T47324, AA525423, AA857296, AL435639, AL119284, AA701119, H51538, AW105714, N94134, AA507837, AL119483, AI818505, AA442528, AA196390, W07101, AC005578, AC007263, AL133448, L78833, AC004813, AC005215, AC004517, AL022315, AC003006, AC005484, AC006449, AL031659, AD000864, AC005175, AC004476, AC003007, Z98048, AC005057, AL109984, AC007686, AC005624, AC004584, AL021546, AL022316, M89651, AC003982, AC004963, AC006050, AC005356, AC005520, AC007546, U62293, Z82189, AC004905, AC005632, AC000134, AC007707, Z83846, AC004408, AC006251, AC007421, AC004000, AL008582, AC005089, AL022326, AC005668, AC004491, AL096763, Z97054, AC005765, AC005837, AL009181, AL022318, AC004991, Z83844, AC002126, AC005411, AC006252, AC002997, U95090, AL020997, Z83826, AC006006, AC005280, AC005480, AC005722, AC006480, AC006509, AC005225, AC002395, AC005239, AC005088, AL023494, AL022476, AC007227, AC007151, AC005488, AC009516, AC004859, AC005094, AC003010, Z98742, AL080243, L34079, AC004953, AC002492, AL096701, AF207550, AL031591, AC005940, U63721, AP000121, AC004752, AF047825, AL023807, U07561, AC006120, U95742, AP000689, AC004686, AC006211, AL022329, AC004526, AC006552, AC007283, AF053356, AD000090, AC000353, AC002394, Z84469, AL135744, AL049780, AC007685, Z83843, AP000043, AP000111, AC005291, AC007055, AL031255, U07000, U91323, AC006146, AC005071, AL023553, AC003026, Z93017, AL122020, AL021391, AL050325, Z49258, AC007868, AL049869, AL109627, AP000116, AP000053, AP000168, Z93241, AF205588, AC002551, AC005252, AB003151, AL117339, AC002316, and Z98304.
HTHBK04	7291	925600	1 - 134	15 - 148	

HTHBH32	7292	699557	1 - 577	15 - 591	W05248, AW137945, N75450, A1758397, AA877636, AA514763, and AW195051.
HTHBG23	7293	410319	1 - 331	15 - 345	AA423943, and AF180425.
HTHBC07	7294	954440	1 - 311	15 - 325	AA383906, AA383905, and AI143579.
HTHBC04	7295	933029	1 - 277	15 - 291	AL048409, AL048408, AA383902, and AA515799.
HTHAA24	7296	575493	1 - 502	15 - 516	AA383837, AA383781, AA767276, AA214296, AA679520, F18098, AA743374, T86730, AW193880, AA136098, AA371011, AL031685, AC004099, AC005219, AL118509, AC005874, AF134471, AL096791, AC004834, Z95152, AC005620, L47234, AL079342, AL008712, AC008044, U52112, AC004762, AL009182, AC005011, AC005899, AC004968, AC006328, AC007450, AC003086, AC003689, AC003043, AC004801, AC003037, AL049709, AC004984, AC002527, AL023807, AF001549, Z94801, Z98304, AL009174, and U93037.
HTGG027	7297	682376	1 - 432	15 - 446	R73588, A1565226, and AF075029.
HTGGN71	7298	760059	1 - 507	15 - 521	R96968, and AL022722.
HTGGN51	7299	870386	1 - 226	15 - 240	AA595801.
HTGFY55	7300	731360	1 - 127	15 - 141	
HTGFY05	7301	928205	1 - 152	15 - 166	<p>A1751212, T11828, AW270451, AA642445, AA161086, AA569471, A1821379, AA484658, AA630854, AA744400, AC007226, AL050318, AC005484, AC005320, AC004876, U73167, U90094, AC004020, AC004997, AB023052, AC004659, AC005920, AC005585, AC006538, AC009247, AL031311, AC004914, AL031662, AC003957, AL049540, U73640, AC003104, AL022302, AL008723, AC005523, AP000351, AC004150, Z85987, AC000391, AC005874, AF134471, AL139054, AC006077, Z84718, AC002323, Z97988, AC005932, AC005756, AP000513, AP000008, AL031597, AP000215, AL022163, AC005317, AB023048, U80017, AL109952, Z47066, AF200465, AP000704, AL031846, AP000511, AL031283, AL078584, AC005088, AL035415, AL109758, AL078463, AC002559, AC004148, AC005193, AL049839, AC007242, AF117829, U62293, AL033403, Z95115, AL024498, AC006060, AC003009, AC002073, AC005919, AC005666, AC005212, AC002059, AL035450, M17262, AF069291, AC006536, AC006296, Z85996, AC000066, AF067844, AC000379, AL133355, AC004991, AC005844, AL031848, AC002367, U63721, AC005057, AC004655, AC000025, AC004237, AL031666, AL022323, AJ010770, AP000359, AL022324, AC005899, X74558, AL049548, AC004531, AC004950, AL050348, AC003688, AL109827, AF196969, AC004895, AL021579, AL031659, AC007686, AP000251, AC002312, AL031432, AL109853, Z93023, L77570, AC004891, AC006441, AC005487, AC007324, AC002039, AC008101, AC005258, AC006571, AC005081, AL078581, AF001550, AF196779, U95740, AC006480, AL049776, AC007011, AL035086, AC004098, AC018633, AC008079, AC002449, AL133448, AC004167, AL049743, AC004687, AC011362, AC004253, AC004491, AC003965, AC000045, AF111167, AC005527, AC006047, AP001058, AP000348, AL133246, AC000353, AC005207, AP000030, AC004856, AC005914, and AL109798.</p>
HTGFK70	7302	756534	1 - 476	15 - 490	AA195709, and A1381482.

HTGEY89	7303	786057	1 - 434	15 - 448	AC005076.
HTGEY40	7304	711177	1 - 420	15 - 434	
HTGEX10	7305	963862	1 - 1003	15 - 1017	AA252452, AA465260, AI368114, AI803768, and AA678077.
HTGEX03	7306	923445	1 - 355	15 - 369	T40848, W38648, AW103981, AA359366, AA338431, W21392, AA669416, AI364570, H96380, AA323343, T77560, H64482, W40246, AA458804, N91572, N69399, AA665021, AA364224, AI868192, AA411659, Z22622, N35250, AI561255, AI357477, AA747480, AA374705, AW440810, AW439480, AA558716, W94226, AW192297, AI560119, AL037550, W92961, AI061292, AI061134, AA357307, AI572581, AI339182, AI241372, AA876128, AA558402, R76765, AA533450, AI572564, AW316542, AI911901, AI754195, AW328174, AI246796, AA365144, AW383634, AW410086, AI818495, AW339111, AW439646, AI826716, AI978981, AA653975, AA728973, C15093, AA488746, AI273185, AA508509, F12535, AI910609, AI915293, AP000008, AC002553, AC005771, AC005783, L44140, AC009721, AL022476, AL031577, AC004955, AC005532, AC006376, AC004659, X74962, AL035455, AC004841, U62317, AC005043, AL121576, AP000431, AP000210, AP000132, AC005772, AL109984, AC004000, AC006924, AF196969, AC005919, AP000067, AC005229, AC009509, AC005519, AC005225, AP000345, AL023284, AC004134, AL096791, AC007695, AC006501, AC001050, AC008040, AC006040, AC005520, AL096701, AF042835, AP000350, AC007052, AC005911, AC004983, AL050310, AC005015, AP000248, AC004020, Z83840, AL022316, AJ239325, AL031276, Z97832, U73479, AB020869, AC002470, AL031289, AC002430, AC004686, AL035415, AL031594, AL049776, AC005484, AC007384, Z98304, AC003950, AC005231, AC002565, AC008015, AC005081, AC004504, AC006367, AC005808, AP000501, AC004799, AC006965, AL121934, AC005320, AC012627, AC007666, AL096678, AC002996, AC002395, AL034421, AL035683, AL031283, AC005678, AC006273, Z85987, U15422, AC006071, AC005391, AL009175, AL022329, L48038, AC000026, AC002559, AC005007, AF146367, AL009031, AC002326, U19759, Z84480, AL034417, AF017104, AC002350, AF117829, Z86090, AC007226, AC004966, AC006312, AF001550, AF108083, AC004033, U95740, AL031665, AC005253, AC005531, AJ007398, AL035587, M27132, AL049766, AC002059, AC005280, AP000227, AL035658, AL024498, AC005057, AL133382, AC005899, AC008127, AC005288, AL080243, Z86061, AJ006996, AL035447, AC007030, Z98048, AP000557, AF124523, AC006011, AC005005, AC006088, Z98745, U07562, AC005620, AC004693, AL121603, AL035668, AL031848, AL031657, AB026898, U78027, AC005332, AC006141, Z82171, AC004685, AL133241, AC007542, AL031282, AC006948, AF118808, AF165142, AC004626, AL135747, AC006116, AC007388, AC005104, AL035422, AC003007, AL121754, AC004381, AC002418, AL121694, AL022165, AL023283, Z99716, AC007193, AC005786, AC006026, AF069291, AC007878, AF190465, AC004531, AL035420, AC005304, AC008038, AC005684, AC004834, AL080277, AC008498, U62293, AC004953, AF118086, AP000100, AC006285, AC004814, AC005387, AL132716, AC006001, AC005971, AC007688, AL049843, AL034379, AC004884,

HTGEU48	7307	721660	1 - 434	15 - 448	and T39860.
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HTGEG89	7308	786665	1 - 438	15 - 452	AA699670, T87005, AA682585, A1247728, and AA703305.
HTGEG17	7309	662369	1 - 557	15 - 571	AW138672, R01026, AA807185, AA281859, AA281778, and AC008116.
HTGED13	7310	656504	1 - 451	15 - 465	T84646, and AC006487.
HTGEA37	7311	908606	1 - 203	15 - 217	AI040940, and AF129512.
HTGDX37	7312	708877	1 - 531	15 - 545	W95076, N64844, and R92575.
HTGDX10	7313	963854	1 - 631	15 - 645	AA579041, AW238341, AI800426, N72678, H53546, H93717, AI801563, AI791718, AI800706, AI452836, H81406, H68343, AW275432, AW117860, AA676592, AI791659, AA593828, AA873737, AI500645, AI754926, T15767, D44672, AA525753, AI754293, AI570067, AA565911, AI921765, AA602971, AI567868, AW028376, AA342238, AA425924, AI654738, AW272389, N54538, AA015948, AI204309, AA653291, AA314404, AA704040, AA515728, AI619994, AA715876, AW023111, AW151761, AI243793, T40394, F29968, AW173443, AA338289, AI078409, AA484892, AI675615, AI791227, AI927275, AA468975, AI744830, AI128947, AA565232, AL120004, AA493789, AI669421, AA483075, AI354409, AA564587, AI299891, AA603502, AA878058, AI302350, AL079894, AA664126, AI969090, AA610353, AI745116, AI921706, T84117, AI431513, AA534047, AI583532, AI613389, AA572983, AI423034, AI419419, T07903, AI356440, AA701122, AI734155, AA084439, AW151247, AL079553, AI065031, AI984168, AW192930, H47835, AL138262, AW089625, AW148821, AI702049, AA015934, AI358928, AI445699, AI250552, AI280227, AI284543, AA525881, H77492, AI620354, T03928, AI150934, AA055784, AA176604, AI678867, N70044, M77858, AA228778, AW337805, T47138, AW080058, AA744423, AA630854, AA609826, AW265468, AI307563, AA484298, AW051819, AA568127, AW304580, AI254770, AI205181, H09639, AA525517, AI251284, AI251034, AI251203, AI223626, AI587583, AI587565, AI249853, AI633386, AI272649, AI653525, AI378437, AC005247, AC005217, AC004887, AC012085, U91321, AC007376, AC003003, AP000350, AF108083, AC004231, AL031123, AC005914, AL008725, AC005088, AL008719, AC005668, AL035249, AL031311, AC007371, AC005180, AC005598, AC006061, AF030453, AC005486, AL035427, AC004167, AC005531, AF001549, AC005610, AC005045, AC003971, AL132642, AL109628, AC004025, AL049591, AC007363, AC010170, AC005377, AC007221, AC007284, AC004552, AC004526, AL024508, AC004217, AC006480, AC005071, AL035685, AC005094, AL021391, AC008498, AP000065, Z86090, L11910, AC005519, AC005158, AF027390, AL050308, AL133445, AL049778, AC005484, AC004148, AL031003, AL031289, Z98304, AC007842, AC007243, AC005833, AC005771, AC005065, AL080317, AC004685, AC005075, AC005004, AC004069, AC005220, AC007386, AC007381,

					AL031667, AC006368, AC006084, Z97054, AC002350, AC016027, AC004929, AL050307, AC004531, AC016830, AP001052, AP000008, Z77249, AP000704, AC004865, AC002288, U52111, AJ011930, AC002351, AC005682, AC004787, AL049646, AC007878, AL109801, Z96074, AF088219, AC006115, AL023876, AC004081, AC010186, AL133244, AC004659, AC004862, AL050348, AL031651, AL117355, Z93017, AC005037, Z98946, AL132718, AL121748, AC007860, AC002300, U95743, AL035089, AL136297, AC005157, AC006356, AP000697, AL022336, AC005972, AP000355, AC006211, AC003962, AC002369, AC002123, AL117258, AC002416, AC008119, AP000280, AC005969, Z95126, AL049780, AC008085, AL049697, AC005214, AC007382, AC005067, AP000109, AP000041, Z99570, AC006121, AP000107, AC005216, AC008038, AC002404, AC005856, AC005593, AC007021, AF031078, AC004673, AF111168, AF030876, AC004675, AP000039, AL034449, AC004859, AP000011, AP000152, Z54073, L47334, AL022166, AP000354, AC006313, AC005919, AC006479, AF134726, AL035400, AL049743, AL031005, AC016831, AL034410, AC004773, AC004605, AL034548, AL049734, AC009275, AL049631, AC004049, AC008134, AC009247, AC002420, AC002454, AC008372, AC003687, U95626, AC002044, AC005225, M26434, AL096678, AC016025, AC004966, AC007736, AC004687, AC006390, AL109847, AC003071, Z82195, AC006449, AC006965, AL021528, AC004992, AC005516, Z94056, AL035494, AL049869, AL021940, AL136168, AC009248, Z98950, AC005516, Z94056, AL035494, AC007253, AC004842, AC005320, AL035422, AF130343, AL009179, AB026898, AC007161, AP000515, AC004383, AC005192, AP001067, AL023803, AL022067, AC007151, AC005881, AC015853, AC004814, AC007225, Z74739, AC008055, AC018767, AL121757, AL031228, AC007731, AL008639, AF179633, AL035079, and AC004884.
HTGDV61	7314	741381	1 - 569	15 - 583	AA007619, AA251883, AW449640, and AW362295.
HTGDV52	7315	796065	1 - 933	15 - 947	AW301087, AI824945, AW249930, AW410790, AI628800, AW166795, AW273211, AW135164, AI332400, AA826630, AA633504, AW237676, AA902230, AI766293, AA071494, AI659072, AI091356, AI478386, AI824929, AA541660, AI910688, AA970800, AW027494, AA866063, N89610, H23449, W28238, AA918250, N71802, AI206505, AA082316, AW410873, H29625, W92152, AA88964, AI871968, AA678363, AI207283, H99870, AW135165, AA889903, R38069, W67376, T07656, AW205531, AW409867, AI420132, T17353, F10626, AW173167, AI858210, AI380828, AA203347, N62165, AA019630, W92151, AA019449, AW050420, AI269983, AW090725, AI651789, AW243570, AA017312, W22870, AA831409, AW410789, H42669, H42668, AI333511, AF052137, AJ271669, and AB023065.
HTGCQ86	7316	784676	1 - 523	15 - 537	R91710, R96722, and AI248214.
HTGCH60	7317	895628	1 - 715	15 - 729	AA661921, M77914, AW021207, AI270117, AW193265, AA063173, AI284640, AI583283, C18993, AI370094, AI350211, AI370074, AA729697, AI431303, AI036037, AI732378, AI754955, AA587604, AL046409, AI751216, AI687343, AL038705, AA490183, AI696962, AW302013, AA834707, AA658362, AA303007, AA478355, AL046205, AI281881, AA828227,

HTGCD55	7318	732247	1 - 665	15 - 679	R95094, and N71584.
HTGBS94	7319	578786	1 - 387	15 - 401	
HTGBS70	7320	870405	1 - 108	15 - 122	

AA613591, AW069769, AW264934, A1754658, AA826134, AA828771, AI860013, AA613203, AI358571, AI613280, AL037683, AA846952, AW276435, AA847952, AI537077, AI969436, AA720702, AA526787, AA351056, AI434137, AA526316, AI133164, AA338904, AA747070, AI678316, AW083402, AA577906, AI824706, AA828704, AA632994, AW028429, AI634384, AI281697, AA618452, R98359, AI744995, AI572924, AA601433, AW408707, AI362552, AL040921, N53150, AA713891, AW103509, N27763, N71746, AL037383, AI745151, AL121235, AA569471, AW276827, AC006120, AC007919, AC002565, D83989, X55924, X55933, U18395, X55925, U18392, U18399, U18391, U18394, AC005484, U57005, X54179, AC006515, U04355, U57006, U57008, X75335, AC007051, X55926, U57009, X55923, X55927, U18387, U18393, AC005907, X55929, U18388, AL133321, AL035045, X54175, AL078624, X54180, X55931, U67831, AC004126, AC002431, AL035552, X54181, X54178, I51997, U67217, AF117829, AC006077, A67988, I47228, AC004857, I49046, AL035413, U18390, X55922, AC003085, AC005406, AF038458, X55932, AC005696, AC004592, AL023882, AF077058, AP000352, AL132992, AC000029, AL096776, U75931, U63313, AC006040, AC006271, X55930, AC005046, AP000351, AC005754, AC005004, U67233, AL035448, AL080250, AC004650, AC002531, U18400, U67829, U72787, AL035461, Z82215, U67827, X53550, AP000017, AP000159, AC005523, AF015151, AC007848, AB014080, AP000088, AL031780, AC002456, U67801, AC010205, AP000228, AL021939, AC004098, AF015149, AC010072, AC005037, U67231, Z86062, AC004802, AC005531, AC005815, AP000140, AC004072, AL122003, Z98051, AC006213, AC005002, AL078581, Z86090, AC007312, AC006561, AL080243, U18389, AP000282, AC006458, AC006548, AL008728, X96421, AC004895, AF015157, AF015156, AC007344, Z69724, AL031432, L78833, AC011604, AC006538, AL031733, AC005242, AC006511, AC002470, AC004940, AC006998, AC006037, U66059, U67229, AC004879, AC004167, AC005378, AC004832, AP000514, AC006006, AC005520, AL021453, AL035587, AC004263, AC003119, AC009516, AP000244, AC007043, AC005603, AL121603, AP000040, AP000108, AF015147, U67230, AP000468, AL022721, AC006350, AL034452, U80017, AC004970, AL035425, Z69666, U67235, AC004230, AC010202, U67222, AC007193, AF134726, AC004981, AL109865, AL049766, AP000502, AC005521, U67227, AC007151, AJ011932, AL035402, AF190465, AC004929, AC005409, AC002126, AL050341, AC000092, AC011504, AC007206, AL079304, U67226, AL031734, AL023581, Z76735, AL121748, AC004825, AP000037, AP000105, AC005604, AL022163, AC005358, AF015150, AC007274, AL031670, AC004901, Z70042, AC006292, AJ011930, AC006004, AL022722, A91686, AC004933, Y18000, AC000094, AC004449, AP000431, AC007204, AC005803, AC002377, AF188025, AL034373, AC007999, AC005785, AC006285, AL121823, and AL035252.

HTGBS59	7321	739388	1 - 409	15 - 423	N49021, AC010205, and AC005409.
HTGBS51	7322	578782	1 - 200	15 - 214	AL021453.
HTGBS34	7323	576472	1 - 347	15 - 361	N46749, AI818231, AA082588, AA643801, AL046746, AI112791, AW270258, AA551181, AA174016, AA174017, AA318397, AC004695, AC003682, AL022327, AL136295, AC006374, AC005859, AL031848, Z95152, AF165926, AC005037, AC005669, AC005274, AC007059, AL035398, AC002401, AL050307, Z83822, AL096791, AC009044, AC007263, AC005406, AC005066, AC005089, AC000090, AP000089, AC006084, AL034548, AC002120, AC007165, AJ006996, AL023878, AB026899, AP000350, AF053356, AP000500, AP001063, X74458, AC006388, AL030996, AC004859, AC005536, AC007406, AL139054, AP000116, AP000049, AL008583, AP000311, AL122020, AC005332, AL022165, AP000501, AC006211, AP000142, AF130343, AL132716, AC004030, AL109801, AL021326, AC000159, AC002425, AL031259, and AC004417.
HTGBS08	7324	959699	1 - 796	15 - 810	N51029, and H68078.
HTGBR52	7325	727276	1 - 378	15 - 392	R37214, H04094, AA781420, and AC004638.
HTGBN58	7326	738229	1 - 221	15 - 235	R37012.
HTGBL15	7327	660483	1 - 504	15 - 518	H64944.
HTGBH09	7328	625756	1 - 158	15 - 172	N71861, and N67954.
HTGBE67	7329	751525	1 - 286	15 - 300	AA482846, AC005152, AL121652, AC002350, AB003151, AP000688, AC005089, AC000081, AC005180, AP000495, AC005899, AC005911, AL035249, AC005154, Z95152, AC000111, AF196972, AP000248, AC005924, AC005071, AL121658, AC008080, AL050334, AC007546, AL096791, AL031602, and AC007868.
HTGBE59	7330	578807	1 - 478	15 - 492	AL031657.
HTGBE05	7331	932168	1 - 405	15 - 419	
HTGAZ86	7332	785594	1 - 528	15 - 542	N63915, AI453245, AW089866, AA557995, and AJ250915.
HTGAZ75	7333	766583	1 - 465	15 - 479	R01774, and AC004985.
HTGAY27	7334	683556	1 - 371	15 - 385	T47772, AI832594, AA552979, T95772, AI954936, AA601033, AI124830, AC005543, AB017654, AC004836, AP000465, AC007057, AC002559, and AJ239322.
HTGAX83	7335	781275	1 - 446	15 - 460	N62263.
HTGAW78	7336	773666	1 - 517	15 - 531	AA731209, AA236961, AA706202, H24953, AW161459, AW161879, AI191343, AI003797, AA936548, AA299422, AA584207, AA659832, AA666066, AW150209, AI439393, AI798407, AW157731, N34258, F31203, AA775127, C14576, C15336, AI889426, C15180, R68503, AW439724, AA226346, AL047480, AW072443, R99581, R93658, AI564215, W63553, AA297776, C14966, AL037777, AA862312, AI969106, AA609826, AI368862, C15184, C15504, C14796, AA984829, T06518, AI003245, AL046830, C14627, AL024498, AL049779, AL049697, AC007382, AC005207, AC009721, AL021155, AF092852, AL022326, AL034379, AC008015, AC003108, AP000350, Z93244, AC004999, AC005231, AL079342, AP000493, AC005866.

HTGAT92	7337	496307	1 - 489	15 - 503	AB020866, AF196969, AC007314, Z99716, AC005102, AC006449, AC005594, AC005197, AL022165, Z95703, Z68872, AC002559, AC002565, AP000365, AL035695, AC002563, AL035088, AC005822, AL109628, AC002133, AC000112, AC004941, AC005191, U77079, U77081, AL033379, AC006537, AP000958, AL096711, AC004622, AL023513, AC006160, AC004876, AP000310, AL109801, AP000116, AL096677, AC002425, AL022313, AC009247, AC007051, AL133163, AC007919, AL009181, AC006139, AC006271, AF116548, AC004895, AC004152, AL031255, AC004834, Z97630, AF003626, AL049843, AC004916, AL122020, AL031283, AC005089, AC007773, AP000118, U95090, AC007774, AC004703, AD000092, AC005216, AC005921, AF196779, AC006132, AC002528, AF027153, Z69709, AC010077, AP000467, AF196972, AL049694, AL031588, AL035086, Z97053, Z83846, AL035664, AC005903, AC005196, AC006130, AC007368, AC007326, AL034417, AC003075, AL020997, AP000031, AC004492, AC010170, AL121603, AL031291, AC004817, AC004813, AC006117, AC004031, AL034555, Z97876, Z95118, AC005865, AC004773, Z97989, AC007450, AL022318, AC004499, AC006146, AC004985, U77080, U77078, AL031662, AC006237, AC005067, AL109984, AF017104, AL049553, AC016831, AL031651, AB014540, Z82176, AL050404, AL110122, AF191069, AF096876, AC004150, AL031230, AC007993, AL021939, AP000352, AC003084, AC005783, AF116546, AL117354, AC002477, AC004801, AB000876, AC003030, AC002504, AC006597, AF124730, AC004477, AL035070, AC005666, and AC007263.
HTGAT92	7337	496307	1 - 489	15 - 503	AA213676.
HTGAT55	7338	732248	1 - 683	15 - 697	AA033990, and W78755.
HTGAT16	7339	919524	1 - 343	15 - 357	H69643, T19082, T36034, AA578092, Z44861, F08360, R18488, Z42109, R11866, T36046, R54184, Z45556, T89821, A1817898, AA772776, F06240, and AC005332.
HTGAT01	7340	870424	1 - 359	15 - 373	AA731219, and AL034418.
HTGAS15	7341	870423	1 - 433	15 - 447	NG3061, and AL039423.
HTGAR44	7342	716740	1 - 470	15 - 484	T60572.
HTGAK39	7343	705634	1 - 412	15 - 426	AA258903, and AL035455.
HTGAJ86	7344	785672	1 - 262	15 - 276	AA001630, and T99029.
HTGAJ73	7345	764598	1 - 477	15 - 491	H83056, T08052, AW373586, and AW373401.
HTGAI96	7346	796541	1 - 605	15 - 619	N75646, AA442831, N64799, AA953995, and AW298012.
HTGAI15	7347	870441	1 - 463	15 - 477	AA693675, AA737318, AA552885, A1674873, AA020850, A1246796, A1801701, AA160481, AL041146, A1824562, A1801591, N29933, H50727, AW270382, AL079843, AA845813, AA458736, AA890235, AA158956, AW407578, F16274, N23896, AA916371, AW405299, AA483771, AA099612, AA121815, AW341892, F25972, F25867, T07287, AW024008, AA199616, AW236342, AA134669, A1302994, A1432814, T16427, AA182569, AE000660, AC003029, AC005207, AL031770, AC005740, AL080114, AC006138, AC006049, AF045555, AP000513, Z85987, AF106564, AL031311, AP000966, AC005900, AC005081, AL109847, AC004858, AP000959, AC007688, AL022320, AC005023, U91321, AF013593, Z68331,

HTGAI13	7348	955227	1 - 413	15 - 427	AC006965, AC002470, AL133011, X52851, AJ012008, Z72520, L34079, AC004180, AC005175, AC004202, AC004227, Z99756, AF130247, AL031777, AF121781, AC004856, AP000504, AB020867, AP000518, Z98036, AL022163, AC000159, AF272510, AP001068, AC007324, AF165138, AC007130, AC004998, AC004595, AL034551, AL050318, U95740, AL122020, AC005799, AC005548, AC006016, AB023054, AC004816, AP000555, AC008079, AC005695, AC007842, AC008055, AF001549, AJ011930, AC003070, AL035458, AP000354, AF165142, AP000952, AL035249, AC005332, AL035494, AP000010, L44140, AP000130, AP000208, U80017, AP000247, U49740, AC001163, AC002288, AB017567, AC006980, AC004151, AL008735, AC000075, AC004755, AC006930, AC005545, AC004236, Z75744, AC000041, AF165141, AL049736, AC005156, AC004007, AC002036, AC005694, AL033392, AL035466, AC006525, AL022315, AL109611, U89337, AL031775, AC007397, AD000092, AC005091, AL096862, AL008730, AL049760, AL096712, Y18000, AC005664, AL034429, AC004542, AL121653, AC002377, AC005702, AL035684, AC005527, AC004981, AL033381, AC006356, AC004062, AC018769, AC018767, AC005531, AC000097, AC006222, AC004053, AC005510, AC006948, AC006064, AC002059, and AC007637.
HTGAI13	7348	955227	1 - 413	15 - 427	H62611.
HTGAD62	7349	754052	1 - 518	15 - 532	AA031926, T10780, and Z73639.
HTGAD16	7350	567432	1 - 1025	15 - 1039	AL037910, AA488746, AI859834, AI623899, AL046409, AW406447, AI284640, AA192278, AA468322, AI343143, AW189068, AA808263, AA814778, AA526193, AI561060, AI431303, AW402458, AA878149, AW276827, AL119691, AW193265, AI281881, AI445815, AI350211, AI963720, AW408063, AI446474, AI613280, AI571512, AW265138, AA342681, T05769, AW277109, AA857296, AI828405, AI284583, AI192631, AI334443, AI270117, AI371249, AA714956, N53150, AI921476, AA829225, AL120976, AI053672, AI079129, AI708009, AA572960, T40077, AI061334, AI375710, AW271904, AI249688, F17700, AA578918, AI688846, AI471691, AW276984, AI174230, AA457685, T40612, R92629, AA814578, AW337954, AI281903, AI623720, AW192330, AI917132, AA579469, H58472, AI755214, AI754567, AI365988, AI769271, AW089810, AA501784, AI520724, AI859946, AA501614, AA577906, AA086318, AA632845, AI160117, AL036283, AA631507, AI590772, AI754105, AL109753, AL031666, AC006285, AC009501, Z96568, AC007371, AC005598, AC007032, AF077058, AC000134, AC004148, U57007, I51997, AL079342, U57005, AC005993, X75335, AC007227, AL049843, U18391, U57006, AC004024, AC005378, X54181, X54178, AL031589, Z84480, D86992, AF196779, AC002476, X54175, U18392, U18394, AL035684, X55925, U57008, U18390, X55932, U18398, D88270, U91321, AC004257, AC002492, AC005620, AF015153, AC004821, AC005538, X54179, AC006449, AC000070, AJ011930, AC004168, U57009, AC005385, X55924, U18395, U18393, X54176, M37551, Z22650, AC005778, AC006511, AL109628, AL132712, X54180, U67801, AL031257, X54177, Z93341, AL023553, AL022320, AC003107, AC006537, AC008275, AL096701, X55926, AC002544, AL096774, AL117352, X55923, AL050338,

HTGAD05	7351	932378	1 - 359	15 - 373	AF141308, AP000689, AC006040, AL096791, AB022785, AC007676, AL035071, AC006167, AC004150, AL022165, AL031659, Z98752, AC006241, AF107885, Z86090, AC004814, AC004408, U18396, AL008718, AC004067, AL132992, AC016025, AC009721, AC005071, AC004386, Z84814, AB023050, AC004158, AL022476, U02532, AL121653, AC002996, AC005907, U47924, AC005755, AF196969, AC008079, AL022311, AP000359, AC008394, AC009516, AC004883, AC005531, AC003109, AC003041, AC006071, AC010197, AC000094, AC002418, U57004, AC004596, AL117694, AC002549, AC004019, AC006152, AC004084, AC004895, AP000065, AC005971, AP000114, AP000046, AL132777, U91326, Z84466, AL022319, AL049845, Z69917, AL049635, AL135744, AC005911, AL031005, Z85986, AF111168, AF196970, AF015156, AL035249, AC005740, AC004477, AC004144, AC005104, AC007216, AL031283, AL049757, D42052, AP000302, AF001549, Z83840, Z98048, AF104670, AL009179, AC002039, AL022399, AC005209, Z74618, AF064865, AC006057, AP000045, AC008273, AC005251, AC005696, AP000345, AP000193, AL031311, AC012627, AC005004, AP000503, AL031848, AP000493, M87919, AC004797, AC006463, AL079299, U67827, AF134726, AL139054, AC005874, AF134471, AC002365, AC004894, AC005837, AF015151, AC002326, AL121655, AL009031, AC004002, AC006539, AL031276, AC000029, AC004061, AC007541, AL049830, AC002543, AC004859, U95742, AC005480, U62317, D87675, Z83844, AC006430, AC005839, L17418, AC007312, AP001172, AC005562, AF053356, AC002347, U73638, and AC002288.
HTGAD05	7351	932378	1 - 359	15 - 373	AA136219, and AA136122.
HTGAC17	7352	664513	1 - 207	15 - 221	N32296, and AW294045.
HTGAA80	7353	574099	1 - 263	15 - 277	AA767660, T59612, H63465, AI624244, AA513983, F13808, AA078539, AW020088, AC006249, AC005377, AC007637, L29766, AC002544, AL034423, Z93016, AC005015, AD000092, Z98885, AL132987, AC004802, AC007540, U91326, AC009247, AC004887, AC007227, AP000359, AC004678, AC004448, AC006581, U66061, AC005102, AC005696, AL035695, AC002301, AC000067, AC006211, AC006046, AL022315, AC005484, AL035458, AC004894, AC005632, AC005595, AC000396, AL022312, AC004859, AL022238, AL022320, AC006057, AL049636, AL049776, AC006501, AC004797, AC003030, L78810, AC004968, AL035086, AL034417, AC002316, AB000877, AC007056, AC005500, AC007537, AL109758, AC005071, AC005670, AC004883, AC004820, AL035423, AC006064, AC002511, AL031283, AC006463, AL139054, AC002996, AC005736, AC005291, AC005041, AP001116, AC004851, AL034420, AC006088, AC006468, AC000025, AL022336, AL049569, and AC005207.
HTGAA44	7354	574114	1 - 252	15 - 266	AA157291, T47205, T47206, and AF108459.
HTDAC74	7355	765656	1 - 446	15 - 460	AI936530, AI697020, AA025283, AW268465, AA449313, AW264405, AI378679, AI081908, AI031534, AI377811, AI275521, AI377061, AI432300, AA234506, AI363281, AW272480, AI800544, AA194935, AA421721, AW168455, AA476738, AA449948, W38696, AA470900,
HTDAB18	7356	870746	1 - 1454	15 - 1468	

HTBAB07	7357	954434	1 - 447	15 - 461	AA195534, N94923, AI435923, AA234120, AW269667, AA082643, AA292106, W37558, AI253127, AA112193, AI266499, AI215742, AA89883, W37218, AI265961, AA292105, AA479162, AA878762, AI142708, AA683553, AA410515, AI280280, AA683562, AW132000, AI301437, AW008356, AA898825, AA249058, AF045573, and AF115510.
HTBAB07	7358	785846	1 - 408	15 - 422	AA179994, AA382187, and AL049557.
HTBA086	7358	785846	1 - 408	15 - 422	AA382172, AA382173, AW276827, F36273, AW193265, AW270270, AI350211, AI613280, AI114704, AI298710, AI148277, AI249365, AI284640, AI431303, AI733856, AI061334, AW162489, AI963720, AW265009, AW148792, AA857486, AI088162, AA486559, AW193432, AI049722, AI688846, AI610159, AW007789, AA084070, AI768952, AW151991, AI270117, Z85988, Z82188, AF001549, U63721, AI133238, AL034429, AI133396, AP000694, AC005921, AC004975, AL031848, AF129756, AC002470, AL031295, AI133246, AC005736, AC002117, Y14768, AF200465, AL132777, AC003080, Z95113, AC004150, AF111168, AP000555, AC004991, AL049776, AC007308, AP000505, Z83840, AP000557, AC003108, AL109628, AL050318, U91323, AC005261, AC006449, AC004804, AL133448, AC005409, AC005332, AC004534, AL031729, AC004812, AP000967, AC005962, AL031670, U62292, Z68321, AL121603, AC006057, AC000134, AC002996, AF134726, AC002288, AC005726, AC006241, AJ003147, AC005015, U91321, AL021707, AC007226, AL022318, AC008372, AL031431, AC004686, AF196779, Z98200, AC005722, Z82244, Z84466, AC002073, AP000302, AP000359, AC005808, AC002369, AC002477, AL135744, AC005624, AL096701, AC004859, AL035659, AC004876, AF207550, AL049872, AC003037, AP000114, AL009181, AL034548, AC005529, AP000046, Z95152, AL031680, AC003041, AC007040, AC006480, AL049869, AL034417, AC004887, AC005180, L47234, AC007934, AC007541, AC004491, AC005620, AC004771, AL021546, AC005412, AC005081, AC007225, Z98751, AL035587, AC010170, AC002395, AL022237, AC005971, U78027, AC005207, AC007435, AL022327, AC002316, AC007216, AL035420, AC007193, AC004019, AC004814, AC004526, AC004447, AC004477, AC020663, AC004857, AC006430, AC002059, AL034420, AC004757, AC004253, AL049843, AC005516, AP000556, AC003684, AC005598, AL139054, AC004100, AC005740, AC002544, AC004985, AC006468, AL096791, AC005702, AL008725, AC005844, Z85986, AL023807, AL021578, AL049539, AC005670, AC005274, AC006026, AC005520, AC005527, AF181897, AL022476, AC005089, Z99716, U07562, AC003101, Z69917, AC004230, AC006121, AC007731, AC006511, AC005500, AF109907, AL020997, AL122020, AC006966, and AC003669.
HTAJP12	7359	969518	1 - 426	15 - 440	AI924900, AA887916, and AL096755.
HTAJD72	7360	880561	1 - 232	15 - 246	H57855.
HTAIY90	7361	973870	1 - 398	15 - 412	AC006121.
HTAIQ05	7362	930947	1 - 345	15 - 359	AJ003440.
HTAIG58	7363	838701	1 - 495	15 - 509	W26273, and W28557.
HTAIF22	7364	910040	1 - 452	15 - 466	



HTAIF11	7365	965738	1 - 515	15 - 529	AB002347, and AL049843.
HTAHZ02	7366	918304	1 - 264	15 - 278	
HTAGB16	7367	870855	1 - 567	15 - 581	T85562, AW161607, and AI879090.
HTAFC92	7368	790991	1 - 406	15 - 420	R18870, H17731, R22698, AI681962, R54247, AC004882, AC004531, U91323, AC005529, Z84484, AC005544, AL132712, Z81364, AC004832, and AC008372.
HTAEV23	7369	959129	1 - 810	15 - 824	AI096883, AA476998, AA019020, AL120070, AL046807, AL042275, and D43949.
HTAEP05	7370	932459	1 - 539	15 - 553	AI125151, AI298755, AI025239, AW294401, AW292459, and U62317.
HTAEK41	7371	870858	1 - 309	15 - 323	AF132607, and AB006626.
HTAEF68	7372	753597	1 - 156	15 - 170	H20766, and AB002339.
HTADW88	7373	425065	1 - 234	15 - 248	
HTADW52	7374	537376	1 - 156	15 - 170	AL133448.
HTADO10	7375	968307	1 - 190	15 - 204	Z41228.
HTADB68	7376	753598	1 - 528	15 - 542	T91391, AW299806, and AW299816.
HTACX05	7377	932467	1 - 649	15 - 663	W05789.
HTACW82	7378	778852	1 - 360	15 - 374	R02728, AA699715, AI052571, and AL133404.
HTABK47	7379	720684	1 - 695	15 - 709	AA004882, AA677920, W88950, AA677748, R95883, AI889377, AI687430, AA381958, AI693929, N77387, AI870875, AI937184, AI942476, AW070884, AA431317, AW082772, AA093356, AA931129, AI953855, AA828290, AI199606, AI369307, AA005088, AA889621, AI087410, N52427, AA879140, T74882, AI862944, AA994314, AA807241, AI310814, AI864552, AA740575, AA694382, AA889068, AW392436, R51112, AA804805, AA215997, AI184967, AA807932, N95470, R69182, F29171, AA431669, AA429112, AC005480, and AF132944.
HTABE12	7380	971524	1 - 246	15 - 260	AA381579, and H69131.
HTAAO12	7381	972231	1 - 707	15 - 721	AW083187, AA381398, AA367305, R50884, AW376970, AW376967, AA186803, AF123887, AF144695, and AR018794.
HTAAB06	7382	960796	1 - 373	15 - 387	AI732331, AA574361, AA381015, AA574404, AA574322, and AA584423.
HTAAA45	7383	518652	1 - 384	15 - 398	AA381161, AA381160, AA635976, AA845212, AA582554, AA528390, AA847508, AA847427, AA121777, H69089, AA484892, AA729070, F17312, AA740571, N66684, F35684, H93293, AA741403, AW151761, AA568204, AA570740, AA483606, AA243976, AA557945, H53217, F19606, AI798493, AA714011, AI306232, AI251576, AA907411, AW081303, AW189384, AA579208, AI915081, AA488419, AA862243, AA714282, AI583466, AA523695, AW274191, H66577, AA482954, AI270476, AA832145, AA635150, AA526724, H63660, R95840, AA584482, AA669407, AW089950, AA573564, AI476017, H58393, AA599080, AI223968, H19684, AA584489, AA973261, AA470567, AA574442, H60249, T57767, AI872229, H53109, N72170, AA670267, AI962030, AW373526, AI590404, AI623764, AA661590, AA610509, AA833896, N93272, AA679625, AA215470, AA833875, AA595547, AA829044, AF001177, AC005306, AC006241, AF207550, Z69890, AC004966, AI009183, AL139054, AC005730, AC006509,

HTAAA31	7384	693527	1 - 286	15 - 300	AA380933, and N41495.
HT4AY23	7385	973773	1 - 444	15 - 458	AL031657.
HT3TA67	7386	752169	1 - 470	15 - 484	R56611, H06924, R25038, and AW380697.
HT3SH28	7387	508061	1 - 228	15 - 242	
HT3SA81	7388	589206	1 - 303	15 - 317	AI660664, AA380785, AA063001, AA740970, AI473914, AJ000553, and AF051325.
HT3SA80	7389	781631	1 - 339	15 - 353	AA773463, AA828637, AA566084, AA133596, AL042667, AL042670, T50676, AA488419, AA076418, AI635609, AA156147, AA599199, AI754170, AA557945, AI536834, AW069412, and AC006388.
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HT13A71	7390	766391	15 - 416	<p> AA131513, AA225795, AL223968, AA988610, AL538236, AL370470, AA015948, R67038, T10218,  AT791659, AL307563, AA515728, H81406, AL282821, N94342, N29936, AW272740, AA613761,  AA864426, AA632765, AI811201, AW238341, AI434037, AL079894, AI570943, AA262752,  AW161016, T34066, AA719564, AA779783, AA079421, AI969090, AA133293, H53546,  AA713769, AI758424, AA280509, AI567676, AA572983, AA019068, AI080732, AI049701,  AI963856, H72943, AI278972, AW105729, T51436, AW149741, AA676592, W69639, AA579082,  AA522864, AA584756, AF053630, AP000354, U15422, AC005839, AC002310, AC005057,  AC020663, AC005399, AC005412, AC006241, AL034423, AC000353, AL020997, Z83822,  AC006312, AL132712, AC005972, AL121652, Z95331, AC007225, AF196779, AP000131,  AP000209, AL035072, AI096701, AP000280, AP000248, AC008372, AL031595, AL132668,  AP000696, AF196972, AF134726, AL023284, AL034429, AC004851, AC002302, AF207550,  AL118497, AC008126, AL022238, AC006538, AP000359, AC004966, AL022330, AL049795,  AC005566, AC005841, AC006270, AC004637, AC004032, AC007327, AC004099, U96629,  AC005015, AL133244, AP000050, AC005081, AL022322, AJ246003, AC005736, AL096791,  AC007207, AC007686, AP000022, AC007376, AL139054, AP000117, AC005324, AL049834,  Z84466, AC007917, AL049838, AC006011, AL021391, AL034420, AC004531, AF047825,  AL109627, AP000115, AL031228, AC004382, AL049759, AL020995, Z86090, AC002347,  AC006071, AC005365, AF053356, AL121658, AP001052, AL030996, AC004988, AC004975,  AC007182, AC004257, AC005304, AL035071, AL080317, AC006388, U89335, AC004084,  AP000692, AL049569, AC002400, AF045555, AC004814, AC006057, AC005102, AC007537,  AC007308, AF088219, AC006026, AC007690, AF196971, AC008044, AL022069, AP000691,  AC005531, AC005189, AL117330, AP000553, AL022316, AC002350, AJ003147, AC005666,  AL049776, Z98884, AL049757, AC004659, U85195, AF187320, AL121769, AL022311,  AC004216, AC002128, AC006139, AC004815, AL080243, AC005046, AC007685, AC002425,  AC003043, AC007688, AC005071, AL133448, U78027, AL079339, AC007637, AL022312,  AC006960, AC007371, AC004859, Z83844, AE000658, AL031311, AI096712, AC007955,  AC002470, AC002565, AP000355, AL032821, AC002559, AC005006, AL034379, Z82182,  AB023049, AC008012, AC005363, AC004517, AC007546, AL031431, AC008394, AC007450,  AL008635, AC002301, AC007617, AC004883, AC005821, AC004841, AP000163, AC004134,  AL021546, AP000514, AC006130, AB017602, AC006511, AC003037, AL034553, AC005920,  AC002117, AB000877, AC004223, AC000025, AL122020, AC004792, AD000092, AC005480,  AC002477, AC006111, AL078638, AC007014, U10087, AC008154, D87012, AL031295, L78810,  AC004019, AC011311, AC004905, AL009181, AF111167, AL117344, AL031780, AC005726,  U91326, AC007993, U47924, AL049872, AL035682, AC006487, AL002544, Z94801, AL049832,  AL035422, AF104455, AC005779, AC005837, AC006487, AL021808, AF030453, AL021707,  AC002546, AL031680, AC004973, AL031602, Z68226, AC003669, and AC006084.  AA812058, AL135696, AA569648, AA639324, AA569667, AL043351, AA470899, AA449997.  </p>
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2294

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HT3SA56	7391	522757	1 - 404	15 - 418	AC000120.
HT3BK75	7392	766488	1 - 366	15 - 380	R74031, AI131053, AI288514, AW207346, and AI239976.
HT3BF33	7393	527782	1 - 287	15 - 301	
HT2TA82	7394	522751	1 - 349	15 - 363	
HT2TA37	7395	522754	1 - 318	15 - 332	
HT2SA86	7396	524290	1 - 421	15 - 435	AA485578, T74382, AI818921, AA584167, AL042906, AL042905, AA489939, T60544, AI750281, AL042539, AI016704, AA708108, AA525824, AA665160, AA601348, AL048090, AA574077, AA224525, AL048060, AA837035, AA632821, AA601376, AA425283, AA847507, AI065031, AW263396, AA501821, AA342040, F27846, AA533725, C16675, AA379965, F29968, AI926104, AA661583, H93404, AI919048, AA372949, AA477103, AW166611, AA834816, AI345157, AA702206, AA720732, AA349437, W01265, H73230, AA083046, AA634889, AI587565, AA314494, AI174703, AA767660, AI587583, AA515048, AA496895, AL044701, AL133861, AL040054, AW131457, AA365135, AA525753, AA351056, AW021847, AA134720, AA524804, AA502860, AW438643, AA577824, AA577959, AA188664, AI003068, AW265735, N54397, AI890236, AI350211, AA489571, AI872020, R33941, AI547110, AA747469, AA600202, AI445674, AW087537, AA847499, AI367887, AA372312, AA714011, AW364981, AI049999, AI499954, AA152404, AI588877, AI149528, AA714806, AA248710, AW275788, AC007263, U80459, AC005225, AP000557, U82828, AL049829, Z98051, M63544, U95739, M63543, AC007182, AP000113, AL049776, AC005488, L78833, AC006064, AC004242, Z97054, AC005365, Z93244, AL035587, AL035458, AC000353, Z83838, AC005015, AC005837, AC004520, AC002301, AC005821, AC005899, AF109907, AL050307, AC010205, AL031295, AL031774, AC004975, AC006344, M89651, AC006538, AP000299, AL049697, Z83840, AP000556, AC007546, AF039907, AC005778, AC005913, Z97876, AL133396, AC005355, AC006210, AC004156, AC005519, AC005399, AC005082, U91318, Z82206, AC005081, AC005529, AC003009, AL022336, AC007298, AC004858, AP000031, Z98304, AC005971,

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HT2SA63	7397	518341	1 - 414	15 - 428	AA664248, AA768179, AA484892, AW019964, AA077817, AI624379, AI536858, AI356440, AW272640, AI814682, AI291439, AA862075, AW089950, F35684, AI125615, R72242, AI133164, H77505, AW148775, AI699833, AA837771, AI469172, AA483034, F32248, AI130709, T94072, AI537995, AW190277, H86579, AA714449, AA558697, AI915081, AA745410, AL119838, AA584207, AW249541, AI280504, AA441788, F36273, AI791659, AA728861, H63607, AA715351, Z99127, AL080243, AL008582, AF181896, AC004448, AL049758, AL139054, AC004013, AC005036, AC004883, AF141308, AC007421, AC005773, AL049856, AJ010770, AC006947, AL121825, AC004125, AC005231, AC006600, AC005483, AC005911, AL021939, AC005225, AC012627, AC003043, AL031010, AC002980, AP000307, AP000115, AP000501, AC004492, AL031602, AL133246, AC000353, AL031447, AC008044, AC006071, AC001227, AC002101, AC005585, AC004832, Z84466, AL031666, AP000350, AF196779, AP000277, AP000037, AP000105, AC007279, AC005520, AL050307, AC005663, AC005837, AC005602, AL035455, AB017602, AC006011, AC004382, AL022323, AC005399, AL049869, AC005664, AC006581, AC003110, AC005049, AC005914, AF111167, AP001051, AC007227,

HT2SA50	7398	522771	1 - 580	15 - 594	AF067844, AC004531, AL049743, AL023575, AL031672, AC019014, AC007312, AC005666, AC006959, AL132987, AP000503, AL031984, AC004849, AF134726, AC005066, AC007388, AC007934, AC006050, AC002997, AL031281, AL035690, AF196971, Z97054, Z83840, AC006511, AC007216, AC004686, AC004185, AP000509, AC003661, AC003689, D84394, Y14768, AC007326, Z84482, AC005531, AP000068, AL049569, AC006449, AP000310, AC008064, AC000075, AC000084, AC006468, AC004132, AC004222, Z94161, AC006388, AL031664, AC002563, AC002107, AC002106, AC004963, AL117328, AC004009, AC004910, AC002115, AC006146, Z84487, AL021367, AC005599, AC007270, AC005323, AC006312, AF015262, AJ229043, AC006160, Z81007, AC006057, AC002091, AC004025, AP000328, AP000170, AP000055, AP000123, AP000044, AC004955, AL031729, AL121757, AC004682, AD000813, AL020997, AL078472, AL049694, Z99754, AL049795, AC004590, U63630, AD000091, AF061032, AC004449, AF003626, AC005375, AL035089, AC008072, Z77249, D86995, AL132826, AC006597, AC006130, AL109952, AC007129, AC005696, AC004796, AL121871, AC018633, U02054, AC006275, AL135744, AC005328, AC005227, AL035405, AL035495, AC004234, AC008014, AC004659, AP000348, AP000349, AL023513, Z93017, AL133245, AL031848, AC007347, AC005988, AF029308, AC006101, AP000689, L40817, U15422, AL133485, AC006930, AC004477, AC004895, AC002553, X87344, AP000116, AP000505, AB023049, Z97876, AC020663, AC004810, AC005348, AC005014, and AC005944.
HT2SA48	7399	508077	1 - 260	15 - 274	T90639, AL037825, T77914, T77832, and AL049991.
HT2SA47	7400	578704	1 - 326	15 - 340	AI572364, AI656924, AI678258, and AL023806.
					AA315580, AA629799, R10762, AA737320, AI818532, AA069697, AI625427, AW265051, AA857694, AA857054, AA069300, AI246471, N35626, AW079382, AA134390, AA115721, AI189655, AA626764, AA160498, AA321752, R46585, AA662431, AL047467, AA321116, AC006057, AF196779, AL121603, AF050154, Z15025, AC007225, AC004797, Z98743, AP000505, AL133163, AC005670, AC002312, AF129756, AC005529, AP000088, D87675, AP000326, AP000054, AP000169, Y14768, AC004882, AC005089, M19364, AL049760, AC006948, AF196972, AC005049, AC004841, AF045555, AC005081, AC005759, AC004032, AL031255, AC002390, Z68870, AL078596, AL022336, AC006450, AC000125, AC000353, AC002477, AL035249, AC005702, AC006241, AC002347, AC005695, AL096791, and AC007450.
HT2SA38	7401	840184	1 - 388	15 - 402	AC006010.
HT2SA37	7402	695038	1 - 143	15 - 157	Z95113.
HT2SA26	7403	522770	1 - 391	15 - 405	R59568.
HT2SA13	7404	870917	1 - 333	15 - 347	H30696, R84479, AA501947, and AA708614.
HT1TB40	7405	575355	1 - 328	15 - 342	AA312331, AW020150, AI537368, AI521525, AI926102, AA302979, AI242614, W60077, AI791659, AA747234, AI266359, AA968883, AB011116, AC005911, AC005231, AC004851, AC004650, AL035086, AL031282, AC004797, AL031291, AP000503, AC006449, AC007151,

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HSYDH60	7406	949156	1 - 969	15 - 983	AA151562, A1761915, A1313447, W76635, AA137105, AW070219, and AC005358.
HSYDZ04	7407	926955	1 - 447	15 - 461	H38127, T05941, and H49481.
HSYCV01	7408	940661	1 - 509	15 - 523	H82720, AW239265, N36040, N46516, N28649, AA389677, and AC007541.
HSYCS04	7409	926943	1 - 235	15 - 249	AW192637, AA565972, A1888582, AW189338, A1338022, AA687891, AA227233, AA720594, AA630205, N59038, AA463832, AA533660, A1696455, M77888, AA015753, AA595661, AA315052, A1797998, H15535, A1521525, F02478, AL118628, A1537368, A1394182, AA847181, A1439525, AW085626, AA297208, AA525818, AA742781, R45370, AW022368, AA653150, AA253033, A1375085, R60336, A1300608, AA253068, AA299054, AA206681, N53783, AA302979, AL109984, AC004033, AL021707, AC007050, AC004913, AL031722, AL021393, AL133241, AL049643, AC002996, AL080276, AL078474, AL031255, AC007371, AC003108, AL008582, AC004804, AB026906, AC007731, AC005500, AC004019, AF196969, AB032996, AB001523, AC002054, Z93023, AC007073, AL135744, Z98051, Z86090, AC002470, AC004881, AC004017, AL033504, AC002477, Z99129, AF038458, AC005971, AF165926, AF064861, AC006035, AF217403, AC005800, AC005876, AL022165, AC005015, Z82211, AL121603, AC005602, AC008018, AL031432, AC005250, Z84480, AC005409, AC005776, AC006597, AC004072, AL133321, AC008134, Z93241, AL096774, U82672, AL024507, AP000207, AP000129, AC005531, AC002492, U10580, AC005740, AL023575, AC004890, U91320, AL022157, AP000695, Z97056, AL121652, AC007510, AC002350, AC002991, AC006039, AC007421, Z78021, Z95327, AC002310, AC010170, AC020663, AC007664, U78027, AC007387, AP000070, AC006312, AC006581, AC005666, AC002117, AC005225, AC005484, Z83844, AC003688, AC007093, Z98946, AL096757, AL021579, AC007736, AC007226, AL035422, Z81370, AC006486, AL021706, AC005527, AB018315, AL035667, AC007666, AF129078, AC004662, AC006059, AC007381, and AC004549.
HSYBZ51	7410	725586	1 - 485	15 - 499	W39560, and A1216042.
HSYBX42	7411	713630	1 - 197	15 - 211	AA148244.
HSYBW55	7412	731627	1 - 719	15 - 733	N40307, A1186972, AW075597, and A1206271.
HSYBK77	7413	772067	1 - 529	15 - 543	AW338048, H85292, AA256839, AA852539, A1826768, AA009809, A1082750, AW452772,



HSYBH70	7414	756492	1 - 563	15 - 577	W90074, and H58434.
HSYBH16	7415	661807	1 - 858	15 - 872	AI743403, AW207623, H11817, AA019397, R13362, and AA203639.
HSYAV79	7416	928403	1 - 396	15 - 410	AA252919, W94652, AI685537, N35522, N26472, W94613, AI733918, AA399170, N49231, AA936187, and AC007016.
					AA252272, AI114591, AW188427, AA309530, AA216397, AL040521, AL275631, AA858245, AI537772, H65465, AL049766, AC005591, AC004686, AL096791, AL009181, AF129756, AL022322, AC005015, AC005102, AC005940, AC005399, AC004854, Z85987, AL031587, AC005839, AC000134, AC005736, AC008018, AL031005, AC004263, AC005411, AC004449, AC020663, AL031588, AF053356, U52112, AC002544, AL049829, Z93930, U91321, AL049643, AC005914, AC005778, AC007050, AL031295, AC002997, AC002073, AC005237, AC005071, AL031729, AL022316, AC012384, AL049869, AP000962, AF207550, AL132712, AC006948, AC004913, AL109798, AC000353, AC005726, AC005324, AC004675, AC004962, AC003667, AC004660, AP000512, AC006120, AC006511, AC006241, AC004887, AC007225, Z99716, AL049780, AC007055, AC006530, AP001053, AC007664, AF088219, AL049709, AC005274, AC006449, AC007227, L44140, AC003070, AF134726, AC005562, AP000065, AL031311, AJ003147, AC007226, AC007308, AL110122, AP000550, AC004020, AC007421, AC004755, AC003663, AC005620, AC005316, AL135744, AP000045, AP000113, AC006064, AC002115, AL034562, AL049759, AC004673, AP000240, AC005924, AC005899, Z82214, Z70280, AC005041, AC004560, AP000049, AC004408, AL031848, AC000097, AL008583, AP000311, AF111169, AC006121, AC006538, AP000116, AC005529, AC006547, AC005363, S56773, AC005317, AC007011, AC002352, AC002425, AL049569, Y14768, AC005619, AC006285, U62293, AL136295, AC005060, AL133163, AC007919, AF015416, AP000556, AC004841, AF196969, AP000505, AL022721, AL031650, AP000248, AC007371, AC009516, AC005360, AC007546, AC005243, U52111, AL136130, AC009247, AC006965, AL133500, AC008132, AL117258, AC006571, AC005943, AC005089, Z92542, Z98949, AC003681, AL035413, AC005486, AC012599, AL117694, AC004050, AC007981, AL008718, AC003006, AL022328, AC003010, AP001046, AC004491, AC006251, AL078638, Z97181, Z81369, AC006130, AL035587, AL021920, Z86090, AC005057, AC007324, AL049843, AC005215, AL021528, AL079295, AC008101, AC004150, AC000026, AC006160, Z83826, AC005081, AL080243, AL133485, AC002492, AC002331, AC007707, AC005512, U91326, AC002477, AC005919, AF030876, AC002350, AP000143, AL121658, AC002059, AC007344, AC005412, AF196779, AC006019, AL022476, AC005701, D87675, and AP000090.
HSYAU07	7417	953032	1 - 658	15 - 672	AA666395, AI016892, AA773310, AA666419, AW117831, AA668617, AW069744, AA864910, H70254, H83088, AF037222, AC004913, AC004791, AL121825, AL078639, and AL022318.
HSYAF81	7418	493771	1 - 499	15 - 513	AA994578, AI370475, AW131315, AL037910, AW082117, AL036283, AA603323, AI821467, AW301350, AW303196, AA878149, AW274078, AW406755, AI810236, N22032, AL045709, AI963720, AI908093, AL135698, AI252506, AL038606, AW274349, H45320, AA808263,

AA468322, AI865213, AL039187, AL037632, AI890348, AI343143, AA49997, AW268277, AA984263, AI273107, AA715706, AL041924, AA814778, AA947375, AA715814, AI445815, AL079734, AA557486, AA665330, AI870197, AL079834, AI925653, AL041375, AW277109, W23546, AA827231, AL039471, AL120976, AI061313, AI079129, AI623899, AI609972, AI828405, AL041083, AL121210, AI821881, AI821918, AI859946, AI537995, AA492313, AA533408, AI355246, AI923052, AA877817, AA410788, N55019, AA555232, AL037952, AI801701, AL039530, AI282479, AL042756, AL040072, AI446474, AA601680, TI1269, AI865905, F29989, AA503258, AA857296, AI813795, AA661948, AW276435, AI284583, AI754013, AL048925, AW271904, AA814578, AA019973, AI754923, AW402458, AA127916, AW277171, AL120579, AW189278, AA503168, AC006965, AI049776, AC005484, AL034549, AC004796, AC005921, AC004894, AC002045, AC004584, AC004519, AF196969, AF001550, AC002039, AC008372, AF015720, AL109963, AC006561, AJ229041, U91326, Z98051, AC004068, AC005755, AL022313, AL024498, AP000959, AL050338, AC005254, AC005280, AP000346, Z85996, AC002544, AC004236, AL078639, AC005138, AC006285, AC005971, AC005291, AC003682, AC006138, AC005189, AF001549, AC008101, AC005192, AL035587, U95742, AC007221, AC005520, AC005598, AC005832, AC005037, AC004067, AL034399, AL021707, AC004472, AC004815, AC001228, AC003043, AL035400, AC005004, AC007917, AC004253, AC002375, Z99716, AC010197, AC009516, AL020997, AC004938, AL008718, AL122020, AL031433, AP000555, AC006120, AL121603, AC005875, AP000557, AL008582, AL031055, AC016025, AL023803, AL035694, AC007216, AC005277, AF015722, AC004386, Z98742, U95743, AC006241, AC005585, AC005393, AP000513, AC005046, AC005386, AC006468, AC004821, AC004797, U96629, AC003962, AL035072, AF003626, AC004024, AL049829, AC008040, AC005071, AC006211, AC003029, AC005378, Z83846, AC004148, AL031005, AF126403, AC009464, AC004590, AL022097, AL008721, AC002288, AL031286, AC004596, Y18000, AL035089, AL035683, AP000476, Z98304, AC016830, L11910, AL136295, Z85987, AC007546, AC005288, AL031281, AC004890, AC016027, AL022318, AC004887, AL009181, AP000553, AC005007, AC003051, AC004558, AL050308, Z98950, AC002425, AL080286, Z82194, AC005972, AC007536, AL109802, Z82215, AC005856, AC005529, AC002527, AC006390, AL133246, Z84483, AC006996, AC004098, AC004448, AC007731, AC006318, AC006952, AC005500, AL117337, AL137100, AL020996, AC008012, AC008498, AL008729, AC006204, AC005701, AL136501, AL031132, AF002223, AC008012, AC004534, AJ006997, AL022238, AC020663, AC011331, D83253, AC002418, AC007276, AJ003147, AC007191, AC004526, AC007324, Z93017, AL096817, AP000073, AC006552, AC002301, AC009399, AC004954, AC007458, AC002470, AL133163, AL031904, AC005839, AC009248, AL110502, Z69917, AC002036, AC005826, U85195, AF205588, AL031667, AC008085, AC005699, AF067844, AC004491, AB020870, AP000514, AP000356, AL023879, AC005220, AC006379, AC005274, AL024495, AF051976, AC005821, AC006480, AL049694, AC008079, AF000658
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HSMBD15	7419	659891	1 - 407	15 - 421		N34175, AA461238, AA092575, and AA331823.
HSMBC78	7420	917244	1 - 644	15 - 658		AA393439, N63936, AW197010, AA460782, AI092889, AI979040, AW197137, AA557383, AA411820, AI150862, AI023305, AI373812, AI654759, AA628727, AW071028, AW104069, AI146710, AI241449, AI379435, AI189274, AI635068, H99871, AI038814, AA918973, AA330584, AI278070, AL079427, AL079426, AA962441, T60742, W22792, AI334806, AW190745, AI042557, AW316719, AI262577, N74491, AI564832, H49267, AA737070, AA707017, AA262472, AA400871, AA844052, AA292705, N22135, AA659903, AI275831, R98400, R37266, AA151662, N68298, AI222529, D12311, AA321005, AI194059, W03193, AI027104, F09558, AI401786, AA554228, F10196, AA327628, D12306, N62683, AI422779, T65152, AI243057, AI197916, N35723, T89270, R37372, F09567, AA401639, T84342, N28556, AA804442, and AC002400.
HSMBA83	7421	780932	1 - 412	15 - 426		N48782, and AW148806.
HSMBA39	7422	715630	1 - 349	15 - 363		AI420669, AI421859, and AC004839.
HSAZQ69	7423	754362	1 - 409	15 - 423		R69952.
HSAZF83	7424	780400	1 - 496	15 - 510		AA018350.
HSAZF65	7425	747422	1 - 333	15 - 347		R34942.
HSAZI64	7426	746074	1 - 505	15 - 519		N49506.
HSAZI53	7427	727757	1 - 325	15 - 339		T84311, T83011, T85193, and T90202.
HSAZG52	7428	726195	1 - 470	15 - 484		H03394, and H04091.
HSAZG23	7429	950023	1 - 453	15 - 467		T96724, AA701886, T96613, AL133245, and AL121653.
HSAZA42	7430	866817	1 - 315	15 - 329		AC002430, AC007384, AL031311, AC007686, AC003070, AC002470, AL031651, AC005280, AL133448, AP000045, Z95114, AC005358, and AC004815.
HSAZA39	7431	705365	1 - 504	15 - 518		AA082591, AC002542, and AC005495.
HSAZA06	7432	935451	1 - 351	15 - 365		
HSAYT37	7433	708803	1 - 408	15 - 422		H50833.
HSAYT29	7434	866821	1 - 732	15 - 746		AA501933.
HSAYR63	7435	744333	1 - 414	15 - 428		R98708.
HSAYO42	7436	713793	1 - 457	15 - 471		R21904, R81864, and H04638.
HSAYK93	7437	791546	1 - 680	15 - 694		AA033946, AI655064, AA678527, AA033996, T89763, AA748095, AA554593, AW075801, AA033945, R85174, AI222713, AA873521, and AC004924.
HSAXS16	7438	661933	1 - 391	15 - 405		H79295.
HSAXM08	7439	866838	1 - 785	15 - 799		AA706495, AI187148, T57767, AA565911, AA723299, AA808861, AI361866, AA503298,

AA775205, AL921765, AA812684, AF001549, AC005736, AC005081, AC004797, U62293, U63721, AP000505, AP000501, AC004990, AC005488, Y14768, AC005730, AC007637, AC005057, AC004991, AC006441, AL031311, AC006064, AC005529, AC006505, AC005261, AC007193, AC002301, AC004253, U95740, Z95115, AL049759, AC005562, AL096701, AL034420, AL049843, AL034379, Z85987, AC007993, AC004655, AF030876, AL031228, AL109865, AC005486, AF190465, AL031291, U91321, AC002558, AC006509, AF196969, AL022316, AL122020, AF031078, AC002544, AC004084, AC005082, Z84466, AC004383, AC002115, AF196779, AC002400, AC005821, AL031295, AC002316, AC006965, AL096791, AC006014, AC005288, AL031602, AL021154, AC007707, AC002350, AL133448, AP000555, AL035415, AC006241, AL033527, U62317, AC005015, AC006430, AC005740, U07562, M63796, AC006077, AC005071, AL034549, AC006312, Z84484, AC000025, AC007327, AC003684, AL020995, AC006487, AC006948, AF038458, Z99716, AC005527, AC005049, AC016027, AC006011, AL049766, AC004805, AJ003147, U91326, AL022326, AC004417, AL080243, AL132777, Z83822, AC005484, AC004841, AL031276, AC004491, U91318, AC006211, AF111167, AC004876, AC004263, AL049539, AP000692, U47924, AC005067, AC004099, AC007226, AC004983, AC006480, AC000003, AC005696, AC003108, AC016025, AC005911, AL050348, AC004859, AC004067, AC003006, AC004223, AC003010, AL133500, AC005971, AC004167, AC005632, AC016830, AC004616, AC007216, AC006236, AL135744, AC010205, U91323, AL008627, AP000694, Z97353, AL132712, AL031587, Z83844, AC007277, AC006597, AL049697, AC002369, AL023807, AL109758, AC004815, AC009247, AL035400, AC005764, AC006468, AL021394, AL009181, AC005089, AC004967, AC009516, AC006101, U80017, AC006088, AC005274, AC006538, AC002395, AL133355, AC004819, AC004675, Z97054, AC000159, AC005722, AC002091, AC002310, AL031848, AC004033, AC002477, AL049757, AC011456, AC005031, AL050318, AC006115, AC012330, AC004031, AC004534, AC004150, AC005011, AL035681, Z99570, AC005295, AC003109, AL133353, AP000088, Z98036, AC005899, AC004975, AC004821, AC007055, AC005332, AC007731, AB023049, AC005482, AC005500, AP000031, AC005072, AC004834, AC005280, AC004020, AF109907, AC007227, AL022476, AC007263, AP000696, AC002425, AF088219, Z83826, AL049872, AL096767, AL021917, AL035450, AC002314, and AC002070.					
HSAXJ95	7440	721825	1 - 547	15 - 561	H23534, AA649201, AA972098, AA743722, AW292515, and AA884319.
HSAXJ93	7441	792516	1 - 440	15 - 454	W31014, and W27097.
HSAXI05	7442	932387	1 - 492	15 - 506	N50573, AL983229, AW149904, AC012627, and AC004004.
HSAXH85	7443	784475	1 - 200	15 - 214	N72959.
HSAXG45	7444	457077	1 - 357	15 - 371	N48850.
HSAXE42	7445	714040	1 - 358	15 - 372	H23933, AL111184, and H46840.
HSAXE33	7446	702673	1 - 413	15 - 427	H53383.
HSAXC55	7447	732368	1 - 470	15 - 484	N71589.

HSAXB89	7448	787069	1 - 210	15 - 224	AL440512, AA001386, and AC008038.
HSAWY92	7449	792888	1 - 649	15 - 663	T85565, W88924, W89181, AL047407, and T85566.
HSAWY81	7450	574184	1 - 432	15 - 446	F30650, AI251429, AA995373, AA664126, H51835, H29914, AA53409, AA456149, AA643784, AA482928, T06210, AW270385, AI750125, AI283938, AA633424, AA230155, AA584765, AW238495, T03900, AW131417, AW341978, AI628859, AA577824, AA833828, AW103406, AI366555, AA458534, H93152, AA180857, AA147521, AA229935, AA808998, AA659832, AW008184, AA443727, AI251024, N27753, AF111168, U07562, AC005520, AC005971, AC007565, AC003042, AC005512, AL109627, AC007546, AC002369, AL049697, AL049766, AC004263, AC005803, AL008718, AL020997, AL031230, AL022313, Z84487, AL133382, AC005377, AL109758, AC004242, U73168, AL020993, AB003151, AC003982, AL121748, AC002554, AC002365, AC004099, AL031005, AL049874, AC004821, AC005666, AL022726, AL049872, AC005480, AC002549, AC005102, AP000501, AP000255, Z99716, AC005300, AC005632, AC012085, AP000688, AC005746, AC005355, U96629, Z85986, AC005081, AC003070, AL096791, AC000025, AL008719, AC002350, AC005037, AC016830, AL049869, AC003109, AC006441, AL133243, AL109963, AC005696, Z77852, AC002091, AC004929, AC006312, AL050348, AC005920, AC005375, AP000213, AC002565, AL035072, AC003098, AC004859, AC004000, AL049830, AC006057, Z98304, AC002558, AP000135, AC002094, AF134726, AL021707, AC004770, AC004895, AL031680, AC009336, AC005258, AL121825, AC007536, AL033392, AF047825, AC006120, AP001052, AC005088, U91326, AL021393, AC007216, AP000499, AC002544, AC004019, AC004228, AJ003147, AC016025, AC007666, AC004678, AC004520, Z95152, AL135744, AC007785, U02051, AC007510, AP000031, AC005332, AC011311, AC005887, AL133371, AC005899, AC007731, AC004551, Z83840, AL008726, AC005500, AC005231, AL121652, AC002425, Z93783, AL049776, AL049843, AP000547, AL008582, U82828, Z98742, AL031281, U95742, U63721, AL109657, AC004049, AL050341, AC005291, AC004253, AL034418, AC006480, AC016027, AC004814, AC007066, AC002301, AL049760, AC006333, AL022165, AC006011, AP000553, AC005189, AL049757, AC004583, Z98950, AC000379, AC004167, AC003010, AC006111, AC006006, AC003043, AC005736, AC009516, Z84469, AC006121, AL050307, AL096703, AC003104, AF139813, AL133448, AL133163, AC004098, AC006241, AC009247, AC005237, AB026898, AC004655, Y14768, AF109907, AC005031, AL031118, AC004764, AC004602, AC010170, AL021977, AC005488, AL035071, AC005527, AC003108, AF196970, AL021391, AC006014, AL109952, AC008015, Z86090, AC007773, AC005070, AP000505, AC012384, AF031078, AL031432, AP000557, AC008372, AC002316, AC006285, AF030876, AC004491, AC004509, AR036572, U91328, AL022334, AL133445, Z97054, AC005013, AC005048, AC002312, AC005328, Z83847, U91323, U80017, X69907, AC006449, AL118516, AC005280, AP000133, U91327, AL049795, AC007537, AC005363, AP000211, AC007845, AL021546, AL022101, AC005837, AP000692, AP000121, and AC006313.

HSAWY79	7451	574182	1 - 356	15 - 370	AA214655, AC004815, AC004975, AC007388, AC004491, and AC004991. AI038990, AL135377, AI754544, AL120008, AA633892, AL043217, CI4967, R73754, AA584482, H45136, AA773302, AL120004, AA484145, AC006121, AC005512, AC005924, AP000513, AC002544, AL031311, AC005200, AC005015, AC004841, AC005081, Z98950, AC006468, AL035079, Z79997, U91326, AC005793, AL122020, AC005071, AP000356, AL022318, AC002115, AC007055, AL009179, Z93930, AC003071, AC007201, AL133246, AC005291, AC005913, AC004755, AF001548, AL078611, AL009181, AC007226, AF053356, AC005520, AC004771, AL096791, AF134726, Z98751, AL021918, AC005355, AL135744, AL022238, AL021707, AC005944, AF111169, AL096712, AL031680, AC005006, AL008718, AC004084, AF001549, AC005529, AL031597, AC005755, AC004531, U07563, AL031589, AC002310, AC006449, AC004228, AP000692, AC004922, AL022165, AC005527, AP000553, AL121603, AC003101, AF196971, AC005667, AC005412, AF207550, Z98742, AC005004, AC005280, AL031291, AP000348, AC005932, AC005257, AC005484, AC002984, AP000503, AC004475, AL049694, AC007314, AC005057, AC005839, Z83840, AC005837, AC000379, AC005207, AC004031, AC004000, AL096701, AC003029, AC006064, AC007421, AC007676, AP000045, AC004143, AC005736, AC004878, AL033352, Z82208, AL024507, AC004805, AC004966, U95742, AC004033, AC005233, U96629, U91323, AC006480, AC007057, AL109952, AC006930, AC004167, AC007686, AC005193, U52111, AJ246003, AD000092, Z98946, AC005619, AC005567, AC002347, AP000030, AP000260, AC004797, AC005049, U91325, AF111168, Z84721, U62293, AC002550, AL022322, AC020663, Z98048, AC005940, AC006071, AC004854, AL008582, AC004707, AC007842, AL009183, AC002369, AL035422, AC005225, AJ011930, AC007666, AC004851, AL034420, AC006511, AL049776, Z83843, AL031282, AC002091, AC016027, AC004526, AC004034, AC007216, AP000248, AC005231, AC002312, AC006132, AC009509, AC016830, AC005695, AC002395, AC002316, AC003665, AL021154, AL050308, AC004991, AP000074, AC005632, AC005899, AF129756, AC007546, AF196972, AC005803, AC004079, AC004491, AL031591, AL031685, AC005756, Z98750, AL049697, AC004686, AL109980, AC005391, Z93241, AC008040, AF165926, AC018633, Z99716, AC005519, AC003070, U85195, L78833, Z93017, AC003663, AC005482, AC009247, AL133448, AC004834, AP000555, Z94056, AC012384, AL022237, AC007263, AL031587, AC005668, AC005730, AL049760, AL121655, AC004638, AL021155, AP000099, AC005786, AC004099, AC004816, AC004770, AC006088, AL049780, AC005180, AL034548, AC007845, AL135783, AC006023, AC004409, AC005089, AC005332, AC004659, AL022476, AC016025, AC005701, Z97876, AC004257, AL049757, AP000275, and AP000113. R18910, AA758341, AA861341, AA992385, AI066599, AA393305, AA626371, AI803008, and AF199339. N55482.
HSAWY73	7452	866861	1 - 451	15 - 465	
HSAWY07	7453	953851	1 - 487	15 - 501	
HSAWW74	7454	765818	1 - 117	15 - 131	
HSAWU12	7455	968804	1 - 464	15 - 478	

HSAWS74	7456	765819	1 - 541	15 - 555	AA180526, AI937121, AI566831, and AW451269.
HSAWS40	7457	711441	1 - 386	15 - 400	T72682.
HSAWR08	7458	959943	1 - 584	15 - 598	AA725543, AA770210, AA700020, AW206059, AI672358, AA916774, AA699619, AA827289, AW273123, N59203, AI024492, AI032726, AA693821, AI240892, AA767810, AA291268, AA524731, AA765847, AI208858, AI032993, AI049580, AI375573, AI684175, AI188629, W42659, AA993418, AI342427, AI524794, AI215039, AA287974, AA782458, AI824282, AW362905, AA426229, AI796476, AI500031, AA525966, AW021687, AA730421, AA262040, AI613496, R60802, AA769274, AW383419, H18939, AA291339, AI701999, AI797031, AA908871, AA480957, AA235431, AA370678, AA504437, AA626831, AA659009, H51642, H50988, AA664580, W45184, AA203299, AA259009, AA504201, AA778342, AA746717, AA327714, and AI110271.
HSAWO08	7459	959938	1 - 531	15 - 545	AA665641, AI370010, and AA620852.
HSAWL77	7460	772444	1 - 611	15 - 625	H38048, H47680, R89374, T96702, T96595, and AC003663.
HSAWL68	7461	753569	1 - 441	15 - 455	W19521, and H30845.
HSAWK67	7462	526767	1 - 348	15 - 362	AI027141, AI833186, AI885553, AW362249, AA775877, AA586887, AI870575, AC002558, AC007934, Z80774, AI109963, AI034423, AI109801, AI035454, AI133353, AC006361, AC009516, AF045555, AI049794, AC005081, AC006241, and AC004848.
HSAWK32	7463	418690	1 - 293	15 - 307	
HSAWK21	7464	954897	1 - 408	15 - 422	
HSAWK20	7465	866872	1 - 419	15 - 433	
HSAWI13	7466	971727	1 - 635	15 - 649	AA098930, AI018279, and AC007036.
HSAWI11	7467	964949	1 - 333	15 - 347	R36512.
HSAWG44	7468	716820	1 - 560	15 - 574	H56598, H56599, and AA528438.
HSAWF86	7469	675220	1 - 249	15 - 263	H71860, AA091228, and AC000015.
HSAWF52	7470	728598	1 - 326	15 - 340	H85407, and AI373600.
HSAWD34	7471	706928	1 - 459	15 - 473	N39811.
HSAWD24	7472	677435	1 - 222	15 - 236	R02372, AI130993, AA573647, and AI375038.
HSAWD15	7473	660572	1 - 490	15 - 504	H08501, Z41986, and AC008039.
HSAWCS5	7474	866890	1 - 725	15 - 739	T61478, AA487542, U07000, AI121934, AC004966, AC003035, AI023580, AP000550, AC002051, AC008018, AI031432, AI022400, AC007664, AC007298, AC007325, AC004814, AC003043, AI031674, AC007324, AP000552, U50871, AC009288, AC012330, Z98941, AI049712, AI121825, AI024509, AP000694, AI022171, AC007708, AI079342, AC006948, AC004659, AC007981, AP000247, AC005841, AI031291, AC005477, AI021391, AC004491, AI110122, AC004765, AC009399, and AC005697.
HSAWB70	7475	757409	1 - 156	15 - 170	R01017, AA043219, AI920902, AA283874, AA833856, AA833870, and H66742.
HSAVZ82	7476	881166	1 - 362	15 - 376	H73704.

HSAVZ63	7477	574195	1 - 360	15 - 374	
HSAVY10	7478	968230	1 - 285	15 - 299	AA158018.
HSAVY02	7479	920721	1 - 409	15 - 423	AI267820, AA838103, AI267216, AI267490, and AC005856.
HSAVX22	7480	674919	1 - 290	15 - 304	T78806, and AL049631.
HSAVW13	7481	862754	1 - 344	15 - 358	H71423, and H71422.
HSAVV36	7482	866886	1 - 512	15 - 526	H57122, and T49775.
HSAVS48	7483	721856	1 - 279	15 - 293	H30216.
HSAVQ73	7484	929276	1 - 681	15 - 695	AA192605, AW014772, AI698074, AW243066, AA192606, AI697110, AA677245, AA614646, AW205594, AI270685, AI830046, AA588738, AI476751, AA862842, T91778, AA906049, AA622890, A66648, and AL109983.
HSAVP56	7485	733616	1 - 355	15 - 369	R10034.
HSAVO05	7486	932379	1 - 253	15 - 267	AA639443, and AP001052.
HSAVN72	7487	574129	1 - 483	15 - 497	N70411, and R97430.
HSAVN48	7488	526505	1 - 253	15 - 267	AW021399, AW020094, AI224583, AI610012, AI609984, AA568311, AA425283, AA669238, AA601376, AI609974, AA535558, AI439525, AI754257, AA174108, AI345566, AA525818, AA601333, AW177869, AW265006, AI803771, AA565338, AA551519, H71678, AA533660, AL119691, AA085106, AI433952, AL079553, AI952885, AI909130, AI040313, AI910609, AA568303, R43331, AI832782, AI431232, AL048267, AA493464, AI572680, AA423864, AA831714, X62355, AL136295, AC004802, AL008716, Z81367, AL096703, Z96511, AL121603, AC007421, AP000116, L78810, AL109627, AC006455, AC009516, AC005018, AL049694, AC006211, AC006449, AP000553, AC004812, AC002558, AC000353, U47924, AC006071, AL034420, Z93241, AC005779, AC005015, AC006277, AL096701, AC005740, AC004973, AC004134, AL022316, AC007364, AC004098, AC006581, AL035422, AL035400, AC005387, AL096801, AL050341, AC004686, AC006077, AC005899, AC004921, AC005180, AC006011, AC002045, AL133448, AC010077, AC004703, AC006312, AC005006, AC006141, Z95115, AF030876, AC005755, AC008014, AC005954, Z86090, AP000472, AL031255, AP000125, AC004813, AC005921, Z97053, AL080243, AL035086, AC002316, AF207550, AC011311, AL031673, AC004447, Z81364, AL096791, AC002519, AC006480, AL135744, AC005231, AC006512, AL031657, AC007055, AP000504, AL035423, AC005856, AL031587, AC005225, AL139054, AF031076, AC004897, AF031078, AP000248, AC007191, AC005695, AC005291, U78027, AC005736, AL031281, AC005971, AL034430, AC004685, AP000556, AB001523, AC008115, AL008719, Z83844, AC006511, AC007934, AL021878, AC004648, AC007450, AL035681, AC004859, AC004526, AL078477, AF129756, AC009510, AC006241, AL031315, AC007919, Z82198, AC005668, AC006530, AC007276, L78833, AC004448, AL117338, AC007225, AC005253, AC005785, AC004650, U24498, AC005846, AC004878, AP000696, AC004848, Z84476, AL096766, AC002470, U73634, AC015853, AC005365, AC003029, AC004033, AC002301, L39891, AC003042, AC007283, AL022318, AC005701, U89336,



AC007160, AC007537, AC005696, AC007308, AF053356, AC004675, AC004834, AC004974, AC004228, AP000501, AC002077, AC009247, AP000557, AC005839, AC006088, AL049780, AP000503, AC006026, AL008718, AC002115, AL049869, AP000172, AC006042, AL034423, AL132777, Z49918, AC005071, AJ003147, AP000057, AL049709, AL035420, AP000008, AC005670, AC002476, Z84480, AL031311, AF088219, K00061, AP000704, AC004030, Z98051, AF001550, AC001226, AL021707, AF045555, AC005207, AC005874, AF134471, AC005529, AC005228, AC004963, AF111167, AC002546, AC006571, AC007637, AL096763, AC002310, L05367, AC005081, AC007021, AP000359, AC004910, AL020995, Z97054, AC003110, AC005320, AL109628, Z84469, AC004491, AC011362, AC005763, AL031767, AC005911, AL121653, AC007051, AC006285, M63796, AC005664, AL031577, AC016027, AC004887, AL023575, AL031009, AF196972, AL030996, AC004797, and AC005933.					
HS AVN24	7489	574106	1 - 265	15 - 279	
HS AVK84	7490	783183	1 - 476	15 - 490	
HS AVI84	7491	783182	1 - 440	15 - 454	
HS AVI53	7492	728361	1 - 209	15 - 223	
HS AVG96	7493	796544	1 - 365	15 - 379	
HS AVF17	7494	664515	1 - 340	15 - 354	
HS AVE61	7495	742076	1 - 446	15 - 460	
HS AVA79	7496	781800	1 - 282	15 - 296	
HS AVA22	7497	674977	1 - 288	15 - 302	
HS AUZ11	7498	967609	1 - 357	15 - 371	
HS AUW24	7499	679279	1 - 525	15 - 539	
HS AUU25	7500	679278	1 - 875	15 - 889	
HS AUQ81	7501	866192	1 - 435	15 - 449	

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HSAUQ54	7502	730928	1 - 402	15 - 416	H49169.
HSAUQ44	7503	716847	1 - 342	15 - 356	R23067, and AC004752.
HSAUL84	7504	908440	1 - 356	15 - 370	AL267359, and M77994.
HSAUK72	7505	766240	1 - 267	15 - 281	AA179392.
HSAUK48	7506	883205	1 - 400	15 - 414	N40665, AW404068, AA461610, AA429180, W25197, AA306808, AA329256, AA304978, H95186, AA338381, and AW405457.
HSAUI23	7507	422961	1 - 719	15 - 733	AW139651, AW134619, T77738, and AA668754.
HSAUH06	7508	954543	1 - 413	15 - 427	AA485628.
HSAUH02	7509	917314	1 - 324	15 - 338	AA774114, AA001307, U51281, and AC001228.
HSAUG74	7510	765859	1 - 563	15 - 577	AW300097, N33037, AW293539, and W57798.

HSAUD02	7511	920827	1 - 446	15 - 460	N70288.
HSAUB69	7512	514840	1 - 650	15 - 664	AA077777, AA354695, AI357976, AI090334, AC019014, AC006204, AJ251973, AC005940, AI050331, AI009172, Z98304, AC007207, AC005911, AC006042, AL023574, AC004832, AL022067, AL022726, AC005611, AC003684, AL050317, AC007172, AL132777, AL049839, AC000056, AC005354, Z83838, AL121658, AL109984, AP000140, AC003098, AL034420, AL049869, AP000088, Z97876, AL021391, AF001549, AC005740, AC012384, Z82206, AL035587, AC005091, AC002040, AC005067, AC004386, AL035684, AJ246003, AL023799, AP000036, AL135744, AF207550, AF015416, AC005399, AC000353, AC005304, AL133163, AL109939, AC006538, AL049611, AP000553, AL049843, AL031311, AC006057, AC006101, AC005215, U89335, AL078624, AL078593, AL020997, AC006160, AC005844, AC005243, and Z97055.
HSAUB39	7513	705677	1 - 400	15 - 414	T96309, AA526387, AI804853, AI818557, and AA935065.
HSATZ81	7514	778268	1 - 348	15 - 362	H83787, H80779, AI741246, AI261722, AF017104, and AC016831.
HSATY22	7515	674986	1 - 389	15 - 403	AA906177, W93403, AA889552, AA889547, AA757340, AI478954, AA906247, AI380565, and AI018570.
HSATW91	7516	790394	1 - 328	15 - 342	T98737.
HSATW51	7517	725879	1 - 538	15 - 552	H99808.
HSATV96	7518	843424	1 - 757	15 - 771	T91873, T84748, AI122618, AA535216, AI884383, AL078638, AP000356, AC005881, AP000128, AP000206, AP000245, AC005225, AC006213, AC004834, AC004216, AC005386, Z68870, AL031602, AL049635, AC004685, AC006449, AC004832, AL022318, AC005233, AC005200, AC005088, AC004967, AC008038, AL031707, AC006205, AC004067, Y07848, AC002492, AC002546, AC002470, Z85986, AF030453, AC004913, AL049776, AL033375, Z95114, AC006285, AC005971, AC006597, AD001502, AC005920, AC000353, and Z98047.
HSATS25	7519	866949	1 - 748	15 - 762	AA504782, AA884955, AA486877, AC004212, AB023050, AP000512, and AF124523.
HSATQ55	7520	732406	1 - 467	15 - 481	R01471, AA191495, AW272663, AA112291, and AC003969.
HSATM64	7521	862436	1 - 1029	15 - 1043	AA074625, AA010341, N79094, N81127, AA010342, AI275020, N62337, AI039035, AA082546, AI632888, AI472260, AI472195, AI003958, W73513, AA234358, AA025769, AA905994, AA977248, AA948588, AA954472, W68348, AI143305, AA922107, AA452878, AI127716, W72476, AI094277, AI589630, W69905, AI216500, AW340339, AI088782, AW055110, AI127337, AI338418, AA722405, AI568823, AI200456, AI659289, AI371712, AI204689, AI243708, AW027897, AI017294, AA993504, AI249161, AW182660, AI351592, AW138347, AI971471, AI189735, AA548686, AI306414, AI420134, AI240611, AA026541, AA595328, C00837, AA041253, AI918959, W68440, AA973316, AA905618, AA877132, AI167501, AI161103, AA905960, AI190826, AA885421, W73344, AA025957, AA341160, F22309, AA460691, W76192, N57271, AA453048, AA779639, and AI873146.
HSATM19	7522	866954	1 - 434	15 - 448	H83017.
HSATM09	7523	456326	1 - 337	15 - 351	T94905, and AF017104.

HSATL02	7524	920825	1 - 488	15 - 502	AA468269, AA468298, and AA468196.
HSATI58	7525	866955	1 - 499	15 - 513	AI336563, AW302011, and AW271091.
HSATE53	7526	728414	1 - 436	15 - 450	T91431, H80874, H53035, and AI909894.
HSATC79	7527	602167	1 - 859	15 - 873	N23278, AI278972, AA679625, AW157731, AI871954, AA410788, AA744018, AW023111, AI251429, AA228778, AI439393, AA715173, AA715075, AI798407, AI066646, AI206841, AI340151, AA535216, AA115863, AA449997, AI189682, AA558404, AA501867, AA602906, AA598892, AI955029, AI923052, AA176604, F30158, AI207424, AI678867, AA644090, AA714011, AI431513, AI357628, AA572983, AA693366, AI564582, N26201, AI061313, AI755202, AI572680, AI471476, AI753488, AI884383, AI587583, AI587565, AA070899, AA491767, AA613624, C06046, AA084609, AI826761, AA622801, AA129746, AI216990, T57767, AI969090, AI744830, AA909816, AW022934, AI356440, AA719433, AW341978, AI249365, AI186438, AI047349, AI355007, AW304536, AA148656, AA610433, AA904137, AA630535, AW104788, T57096, AA837000, AW148792, H93628, F29968, AW243884, AA225226, AI799569, AI925869, L47234, Z95114, AC004253, AI033527, AI031319, AP000045, AC004149, AC004967, AC007388, AF205588, AC004904, AI117337, X60459, AI031683, Z69917, AP000300, AC004019, AF129756, AC000039, AI121820, AC004232, AP000113, AC005527, AC004895, AC007917, AC003982, AC005690, U85195, AP000555, AC006512, AC005529, AC005330, AJ246003, Z92546, AL008637, AC002563, AE000658, Z98884, Z84480, AL121652, AF053356, AC002059, AC003108, AC000025, AP000353, AF196779, AL022316, AL031846, D84394, AL049643, AC004134, AF134726, AC003025, AC006511, AC005484, AL080243, AC005859, AF139813, AP000152, AL133289, AC005183, AC004802, AL035668, AC004148, AC006312, I34294, U07562, AC010849, AC007533, AL021393, AC004228, Z81364, AC005081, AL031311, AC004996, AC005041, AC005015, AC005821, AC005856, L78810, AC007845, AC006449, AC020663, AC007688, AL049869, AL080317, AL024498, AC016026, AC005730, AL023575, AL050321, AC008394, AP000074, AC005911, U91321, AB020864, AC004694, AC004408, AC003007, AC006125, AC005088, AC004231, AL096773, AL133371, AC005971, AL031650, AL049776, AL023803, AC005531, AP000502, AL035072, AC005207, AC006079, AF047825, AP000692, AC002477, AL031230, AC004631, AC005280, AC005071, AL031295, AC004805, AF190465, AC005784, AC007421, AC000072, AC005409, AC005551, AC005632, AC002425, AC006121, D88270, AC004447, Z93930, U89337, AL078603, L77569, AD001527, Z94056, AL122020, AC004491, AC002301, AC005839, U72787, AC006227, AL022330, AL022238, AC004760, AL034429, AC005697, AL024507, AL031228, Z82976, AC004750, AC005043, AB014077, AC004685, AC005598, Z84466, AC004647, Y10196, AC006275, AC004031, AC004851, AC004598, AC005924, AL035587, AL133246, AL096791, AC007536, AL031680, AC009509, AC003002, AC004150, AC004032, AL021453, Z97876, AL049758, AC006473, AC005095, AL096701, Z95331, AP000193, AL117354, AC005874, AF134471, AF064726, AL022396, AC005156, AL121852, AC004517, AL034420, AC004209,

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HSATC72	7528	761511	1 - 424	15 - 438	AA036730, AW021633, AI866854, and AA122279.
HPSAD92	7529	790524	1 - 419	15 - 433	R05270, AW044641, AI167940, AW057522, AA371645, and AL035652.
HPSAB26	7530	429558	1 - 324	15 - 338	AA371620, AA371621, AI160117, AI268959, AA827231, AW263864, AA507169, AL037910, AI347810, AI673731, AI889923, AW408063, AA878149, AA526193, AI859834, AI150670, AI431434, AI433247, F32171, AI360514, AA127486, AA814510, AA437416, FI7700, AI859946, AI049831, AW028908, H05073, AA557486, TI7269, AI908093, AA857381, AA136122, AW327624, AI979005, AL120976, T40799, R92640, AA53448, AI343143, H62778, AA148656, AA830594, AA508873, T32050, AI216054, AI538812, AA528480, W23546, T05769, AA122223, AI538540, AA492313, AI582890, AA663966, AI251111, AW029576, AI252506, AA845659, T40612, AI569982, AI276298, AA297538, C14692, AI343113, AI623899, AW062724, AA279919, H55878, AA827978, AA515224, AW193493, AA702618, AA501614, AA837646, AI832865, AI244254, AA916022, H57826, AA487542, AA769606, AA533408, N39097, AL079734, AI783911, AA347927, AW079809, AI821881, AI079129, AA720732, AI821918, AA716755, AI865213, AI473849, AA223249, AC005261, AL031846, AL008721, AC008498, AL033504, AP000502, AC006511, AF134726, AL080243, AC005180, AC004019, U91326, AC004841, AC006077, AL022326, AC004033, AL031767, AL031255, Z99291, U95740, AC005393, AC004967, AC005332, AL022318, AL133246, AL031733, AC002543, AL033392, AC005837, Z85986, AL049766, AC002073, AC002544, AC004675, AC007876, AL031650, AC007055, AL022353, Z98036, AC002036, AC006445, AC005951, AC005102, AF088219, AC006023, AC005154, I32588, AL022163, U51560, U73638, AC005406, AC006538, AB016897, AF091512, AL133448, AF001550, Z80896, AC002425, AC006322, AC005057, AL031685, AL031274, AC002549, AC006016, AP000356, AC007546, AC006571, AC005878, AC005088, AF064861, AC002119, AC007565, AC005358, AC000052, D32202, AC009464, AL109623, AC004453, U62293, AC002418, AL022165, Z85987, AI110503, AC004996, AP000302, AC006127, AL049872, AP000503, AL034549, AC005399, AF117829, AC007240, AC004386, AC005071, AC005037, AC005484, AB023051, AC006236, AC004878, AC006316, AC002045, AL049554, AL049641, AC007387, AC006013, AL035455, AC005082, AC002316, AL021706, AC004477, AC006398, AC002094, AC005740, AP000114, AP000046, AC007686, AL109829, AL035587, AC005197, AC003043, AC004659, AC005095, AF104670, AC005899, AC005551, AC005988, AC007934, AL035684, Z99716, L29766, AC002350, AC005004, AF188679, Z83846, AF107885,

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HPSAB24	7531	518747	1 - 411	15 - 425	AA371616, AA371617, AA626748, AW167330, AA468956, H07953, T74524, AW271069, AA501867, AL250552, AL284543, AA570740, AA483606, AW264901, AL251284, AL251034, AL251203, AA053463, AW408767, AA113126, AW303098, AL254770, W03333, AA568204, AL249853, AC006211, AL035587, AC002476, AC005488, AC005015, AL132712, AC005619, AF001550, AC002310, AC007774, AC005722, AC005940, AC002350, AC002303, AC004491, AE000658, AP000113, AC004216, AL109759, AL031295, AC006511, AC006509, AC005071, AL022316, AC005081, AL049759, AC005519, AL121658, AP000299, U85195, AC004148, AC004878, AC004966, AC007055, Z83846, AF134726, AL031662, AP000553, AP000695, AL133448, AC003010, AC006014, AC004973, AL133245, AL022312, AC006088, AC002375, U95742, AL136295, AC005736, AC006126, AC004453, AL030996, AP000696, AC006441, AC006006, AC003982, AL023807, AC005324, AC004905, AC007371, AL109628, AC005291, AL031848, AC005529, AL050307, U91318, AC007536, AC005516, AB023049, AC005899, AC004000, AC007308, AC004099, AC004883, AC006387, AC007216, AL049653, AC004990, AC005527, AP000692, AL033527, AL021154, AL031588, AC005920, AP000045, AF003626, AF205588, AF053356, AC004876, AC005971, AC006449, AC005037, AC004024, AL109984, AF111168, AC005856, AC004797, AP000501, AC006115, AL009181, Z95114, Z97055, AL049646, AC007030, AF001549, AC006011, AC007938, AC002425, AP000552, AC009516, AF045555, AF001548, AL021579, Z98304, AF129756, AL109627, AC006285, AC005231, AL022302, AL022326, AL035249, AL049794, AC003684, AC006064, AC007151, AC005482, AC005011, AL035659, AC003036, AC005377, AC004832, AC004815, AP000512, AL133246, AL022327, AC000353, AF196969, AC002470, AC006001, AC009509, AL133445, AC004985, U47924, AC005280, AC005962, AP000350, AC007011, AC004791, AC002480, AC007842, AL031276, AC004448, AC002126, AF001552, AC016025, AC005796, Z84480, AL096791,

HPSAB15 HPSAA94	7532	503600	1 - 405	15 - 419	AC006077, AP000038, AC004025, AC007981, Z99716, AL096712, AL022334, and AL139054.
	7533	793000	1 - 480	15 - 494	AA371610, R08528, R05340, and AC003070. AA371578, AA371577, AL380617, AA515048, AA176978, AA654874, AC009516, AL031681, AC006388, AC005049, AC007216, AF001549, AC004966, AC005225, U82828, AL031432, AC006333, AL023803, AC005778, AL049843, AL031427, AC005874, AF134471, AL133245, AF053356, AP000557, AL022336, AL035587, U52112, AC007225, AC004685, AL031295, AL034548, AC007371, AC005821, AC005971, AC004167, AC006511, AC005822, AC006449, AC007546, AL135744, AC005081, AF111169, AC006141, AC005102, AC004854, AC005562, AC006006, AC005529, AC004000, AC004953, AF111168, AC006480, AC004883, AC005409, AL022326, AL050307, AL022238, AF205588, AL109627, AF030453, AC000004, AC005694, U91321, U85195, AC005088, AC004983, AC006597, AF207550, AC006080, AC004253, AC004950, U91323, AC005089, AL022476, AC003982, AC006061, Z93023, AL133382, AC005399, AC004687, AE000658, Z83845, U47924, AC004084, AC005796, AC020663, Z68756, AC006057, AC006312, AL023575, AC006040, AF038458, AC006211, AC000085, AC005920, AC002470, AC007387, AL031680, AL008582, AC002302, AC005670, AC002996, AL034582, AL022165, Z99289, AL078638, AC005280, AL096791, and AC002425.
HPSAA93	7534	867387	1 - 603	15 - 617	AA371576, AA371575, T80831, N63149, AW088557, AW300749, R96650, AA665304, AL433131, AL537222, AL362442, AA809635, N71033, AL251576, AW297815, AL306232, AA833896, AA833875, AL049653, Z98304, AC005921, AP001052, AL080242, AC002425, AC005722, AC007283, AC007690, AC004659, Z95114, AC005529, AC004983, AP000692, AC005386, Z93024, AC003669, AC005821, AP000355, AL031281, AC004841, AC005351, AC004099, AL022316, AC005632, AC007406, AP000039, AC005261, AC006449, AC004216, AP000280, AL133448, AP000555, AC002483, AC005015, Z83844, AP000107, AL022326, AC002477, AF051976, AL109984, AL049829, AC004993, AC004106, AL049709, AC005280, AF109907, U91328, AC004707, AC004985, AP000356, AR036572, AL049776, AC005037, AC002352, AL021579, Z99495, AC002350, AF111168, AC006101, AC005726, AC003042, AC004703, AL050332, AC005088, AC002395, Z93023, AC004865, AC002045, AC005102, AC003108, AL049856, AC004020, AB015355, AP000065, AL022302, AL009181, U62317, AF001549, AC002533, AL033392, Z95115, Z83840, AL021977, AC005527, AC006023, AL049694, AL031289, U91318, AL049867, AC008040, AC007687, AC008101, AC007371, AC005839, AL079342, AC005695, AL034420, Z98048, X64467, AC000025, AC004526, AC005004, AC007630, AC005670, AC005914, AC002984, AD001527, AL035079, AC005215, AC005520, AL022313, AC005620, AC006121, AC004832, AF134726, Z99716, AC005740, AC004408, AC006057, L78833, AL133353, AC005874, AF134471, AP000152, AL031659, and AC007073.
	7535	503543	1 - 263	15 - 277	AA371574, and AA371573.
HPSAA91	7536	503544	1 - 303	15 - 317	R16798, AL247531, AL638195, AL209197, AA978119, AA371428, and AA551295.

HP5AA41	7537	503569	1 - 428	15 - 442	AA371564, and AA371563.
HP5AA30	7538	503567	1 - 454	15 - 468	AA749134, AA766711, AA824619, AA371550, and AA371549.
HP5AA03	7539	960941	1 - 547	15 - 561	AA371507, AA834650, AA371508, AA362349, AL021579, AL080243, AL049776, AF165926, AP000030, AC005071, AP000552, AC004797, Z83847, AC006101, AC005821, AC005921, AC005562, AL034420, AC007536, AC005551, AC006236, AL031311, AC005015, AL121658, AC007546, Z93023, AC004876, AC002126, AP000045, AC005089, AL031431, AC005899, AL049766, AC005519, AC004841, AC008018, Z95152, Z97054, AC004491, AP000113, AC004966, AL050307, AC004913, AC005829, AC005696, AL121652, AC006449, AL022476, AP000557, AC009516, AF053356, AL022238, AC002477, AC005902, AC000111, AC005231, AC009247, AC004084, L78833, AF111167, AC006965, U91318, AC004020, AF109907, Z98885, AC005529, AL049697, AP000689, AC007371, AC006511, AC004671, AL109967, AC005064, AF196969, Z98051, AL024498, AC005225, AC006255, AC006050, AL031005, AL049760, AC006121, AC005412, AC005057, AP000704, AC002551, AC005620, AF001549, AC002470, AF207550, AC003029, AC007878, AC004125, AL035086, AC002350, AC002312, AF031078, AC003982, AC004882, AC005086, AC004895, AF030876, AC008372, AC000353, AC002492, AC005837, AP000345, AL009181, AL035417, AC007151, AC006006, AC007308, AP001053, AC004858, and AC002352.
HNNTA24	7540	911178	1 - 1654	15 - 1668	AL037632, AL110760, AA524604, AL044340, AA287618, AL038990, AL138265, AF034176, AA708751, AL135377, AL866487, AW188427, AA311156, AA680243, AL963221, AL042905, AL042906, AA601355, AL135698, AA984258, AL047602, AA742815, AA608741, AA481760, AT45133, AA487068, AL119123, AT732120, AA584482, AW243793, AA223932, AA658844, AL119331, AA608612, AA102235, AA524821, AW151713, AL654588, AA487475, AW069819, AW079809, AW102811, AL1310464, AL679294, AW405593, AL951863, AA608588, AL679871, AW328050, AL041706, AL457389, AA211734, U51704, AA133505, AW172908, AL046746, AL952885, AA665449, AA493641, AW080062, AL653525, AA126635, AL160144, AL016704, AA133332, AL694178, AA634991, AA113272, AW008089, AA534064, AL816537, AA224525, AA130647, AA643454, AA643457, AL954192, AL696793, AW277171, AW130036, AA838140, AL340641, AL499134, AA904211, AL583978, AW089861, AA046906, AA808796, AL433104, AA640277, AL157876, AA643452, AL801141, AA845659, AA456937, AW089625, AL913324, AL633490, AA577824, AL132963, AA632281, AA504898, AA513422, AL821881, AL821918, W96277, AW079792, N66012, AA206044, AA297145, AW129686, AL445934, N80210, N76766, AA584862, AF196779, AC004099, AC006241, AC005531, AC005412, AF207550, AC005808, Z99716, AC004033, AL049869, AP000356, AP000556, AC005519, AL049776, AC005901, U95742, AC005071, AC006441, AC004805, U95740, AC005484, AC007216, AL024498, AL022165, AC005399, AC004084, AC007630, AC006079, AC002544, AF053356, Z93244, AC002492, AP000049, AC009247, AC005562, AC007386, AL117258, AL035420, AP000311, AC005829, AC007225, AE000658, AC007011, AC004263, AL133399, Z93023, AC008372,



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HNHP67	7541	859817	1 - 461	15 - 475	T97754, D80212, D80439, D59619, D80210, D80240, D80157, D81030, C14389, D80219, D80268, D80166, D80045, AA305409, D80022, D80248, D80133, D59859, D59502, D51423, D51799, D80253, D80188, D80247, D81026, C14331, C14014, D80195, D51060, D80366, D58283, D59927, D80391, D80164, D51759, D59787, D59467, D59275, D80038, D80043, AA514186, D80227, C15076, D80193, D59610, D57483, D59653, D80196, D80269, D59889, D51022, D50979, D80522, D80024, D50995, C75259, AA305578, D80378, D80302, AA514188, D80241, D80251, AW360811, D51103, AW177440, T03269, C14429, AW178893, C06015, D59373, AW377671, AW375405, C05695, T48593, D80064, D45260, AW178906, AW366296, AW360844, AW360817, AW179328, C03092, AW375406, AW378534, H67854, AW179332, AW377672, AW179023, AW178905, AW177731, AW378528, AW178762, AW179019, AW378532, H67866, AW177501, AW177511, D51221, AW179020, AW377676, AA809122,

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HNHPD68	7542	974350	1 - 483	15 - 497	

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HNHOX01	7543	915303	1 - 186	15 - 200	AL035091.
HNHOV24	7544	974344	1 - 528	15 - 542	AA632511.
HNHOQ36	7545	859824	1 - 460	15 - 474	<p>           AI792564, AI053778, N73203, AA077619, AI018726, N57709, N73060, AA757621, R83708, AI362442, H01852, T60940, AI078143, H37821, AA525331, AI473549, AI128439, AA774098, AA301899, AA584445, AA297776, AI017733, AW373645, AI246061, AA501617, AA569157, H63066, AA904211, AA321595, AI054090, AL138252, F36200, AA516192, AI249853, AA862029, AI284543, AI273675, AI254770, AA653713, W23432, AI251944, AI251034, AI251203, AI268564, AI251284, AW276933, AI085095, AI250552, T03928, AW102930, AA588353, AI138918, AI471597, AW084004, AA741020, AA832016, AI275982, AI371804, T69022, AA557984, AW247089, AI289050, AI284092, H57324, AW192518, AI003988, AL037777, AA728911, AA715508, AA831801, AI949319, H25626, AW152172, AI963408, AA449979, AA225548, AA633565, W63553, AI679759, AA610351, N55041, AA564256, AL036070, AW243808, N50710, AW080772, F17537, AL079894, R25708, AA525949, AI679045, AA975915, AA664248, AI679294, F25348, AA182629, AI052611, AW248498, AI431303, C14599, AA598608, AA682536, AI432851, AI537931, AI459866, AA135988, F33126, F25640, AI798242, C14880, AA814719, AA468494, AW089054, AA449460, AA226346, AI251241, T08386, AA679173, AI613285, AI223626, AA348859, AA219542, AA362791, AL042869, AA776548, AA115655, AW303098, AI889579, AA653291, F32248, AA857812, AA832152, AA084679, AW168699, AW248724, AA846014, AA132929, AW167909, AI917891, AF043251, AF050154, AC005494, AC002057, AF207550, AP000337, AC005233, AP000215, AL022336, AC001228, L13712, AL133445, Z83844, AP000321, AF024534, AL109963, AC002126, AP000121, AP000167, AP000052, U82671, AL022238, AC004500, AL096710, U80017, AC005899, X51956, AC002994, AC006512, AC004098, Z95118, AC006530, AC007058, S77605, U91324, AP000008, AP000704, AC004967, AC002430, AC007384, AC008064, AP000555, AC005328, AC002369, AC005589, AL021368, AC004462, AC006388, AL109852, L77570, AF196970, AC004817, AL132712, AC004686, AL117258, AC007664, AL021707, AL022724, M57627, U16720, AL109802, AC004034, AC004234, AC003692, AL109956, AL031428, AL022327, AC004997, AL031005, AL050338, AC005587, AC006318, AC005585, AC010205, AP000501, AC007277, AC007686, L29074, AC006430, AC005736, U72845, AB014540, AF008915, AF135025, AC005190, Z49154, AL050404, AC004186, AC003047, AC006132,         </p>

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HNHOP92	7546	790911	1 - 720	15 - 734	AA176629, AA515744, and Z83851.
HNHOP88	7547	974327	1 - 523	15 - 537	
HNHOP32	7548	974330	1 - 502	15 - 516	AA515610, AJ230815, AA330576, AA353402, AA578326, AA169232, AW192471, AA584241, AI379710, AA481147, AA480974, AI832832, AA493464, AI917658, AI433952, AA427747, AA167178, N27362, AW148964, AI049999, AW169183, AA209438, AI453476, AA995373, AI869406, AA594164, T57562, AA848131, AI696455, N76712, AA570037, F37050, AA879022, AA167656, AA916556, AA348889, AI061203, AA573067, T05143, AA084320, AA132929, AA225645, AA218684, AI679082, H65404, AA525879, AW243817, AA632621, AA600127, T54552, F36482, N26159, AI216981, AI801563, AA171400, AA977385, AW338376, AA861184, AI732327, AI890297, AI860648, AI925617, AI879968, AA436940, AI890091, AA280198, AW074332, AA513565, R80053, N86047, T77378, AI038577, AA564253, AI952574, AI204310, AA362439, AI719985, AA528507, AI271693, AA713720, AA425283, AA584360, AI434103, AA829565, AI907506, AI610082, T26553, AI126238, AA381948, AI572680, AA661583, AA774398, L48866, AI354369, AI016434, AW021674, AW006527, AA687565, AA553389, AA749062, AA640104, AA338436, N49298, AA099785, AW243808, AI086229, AA088900, AI952885, AW273177, AA303002, AW080062, AW273235, AA099801, AA629107, AL042731, AA523719, AI223242, AA524604, AL079682, AW162314, AW162332, F05050, AA347203, N76093, H68017, AI560063, C15279, AI672515, AI967976, AI754926, AA362670, AA854222, R16061, AA115769, AW406180, AI800189, AI955861, AA527391, AA313066, AA634882, AI818921, T03774, AC004477, Z99716, AC005412, AF165142, AC006544, AC009247,

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HNHO163	7549	838790	1 - 849	15 - 863	AA648110, AL046409, AL042753, AL334443, AL284640, AW303196, AI963720, AL138455, AW301350, AW274349, AW419262, AW410400, AI679782, AL431303, AW327868, AL037683, AW193265, AW338086, AA649642, AI281881, AI053672, AI270117, AI350211, AI613280, F36273, AI305766, AW162049, AI929531, AI110770, AI061334, AI358571, AI471481, AA652764, AA587604, AI962050, AI133164, AI345654, AI298710, AI473943, AW438643, AI339850, AI341664, AI375710, AA177061, AI289067, AI619997, AW276827, AL038785, AA526787, AL044940, AL042853, AI688846, AW193432, AI713815, AI064864, AA490183, AI457397, AW270270, AL042420, AW276435, AL119984, AI732865, AI567674, AA507547, AI341548, AW166815, AI499134, AL046205, AW021583, AI754658, AA178953, AA192740, AW073470, AW104748, AI537955, AI049722, AI917271, AI085719, AI345518, AI281697, AL120687, AI434695, AI821271, AI918421, AI745325, AI379719, AI251002, AW408717, W79504, AI799642, AI340453, AA631507, AW406162, AI744995, AW261871, AI148277, AI890923, AA947360, AA492166, AW023672, AA523815, AI564185, AI017024, AW339568,

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HNHO107	7550	952285	1 - 551	15 - 565		AA209360, and Z85994.
HNHO194	7551	948720	1 - 772	15 - 786		AW407632, AI687343, AA678950, AI284640, AW193265, AL046409, AI613280, AI270117, AI305766, AI350211, AI963720, AI431303, AI610159, AI754653, AA828704, AW276827, AI814735, AI334443, F29989, AW303196, AI251034, AI250552, AI284543, AA491814, AW103758, AI375710, AI345418, AW301554, AI245693, AW301350, AI251284, AW274349, AA502860, AI345654, AW3227868, AI251203, AA469451, AI688846, AI890348, AI223626, AI619997, AW193432, AI144101, AW302013, AI499938, AW438643, AW303098, AI341664, AA806796, AI061334, AI254770, AI826761, AI358343, AW303176, AA847499, AI289067, AW088202, AW406162, AI471481, AW268973, R17793, AI613389, AL041690, AI754955, T74524, AI633390, AA503283, AI601229, AI570261, AW419262, AI049634, AA578861, AA743968, AL037683, AW088846, AW340905, AI246409, AW408767, AI537800, AA630925, AI053672, AW276435, AA682912, AI085719, AL044940, AI355007, AA811741, AI298710, AA719524, AI830390, AL119691, AA502963, AI708009, AA745326, AA570740, AA483606, AA623002, AA713891, AW023111, AI889781, AI281697, AA577906, AI744995, AA581903, AA568204, AA635433, AA720702, AA503284, AA503258, AI344844, AI199816, AI345681, AI754658, AI345675, AI434706, AA225246, AI251241, AI589230, AA584752, AW339533, AA490183, AA904211, AI955323, AI860013, AI334464, AW407578, AI344812, AL048925, AA084609, AA812139, AW008317, AA492166, AL042420, AA594145, AA758934, AW276817, AI434695, AC016026, U57008, AL031123, AL021393, AC005200, M37551, AC005520, U18394, D83989, AC007999, AF015147, U57009, U18395, AC005488, AC006241, AL023656, AP000117, AC002455, U57005, AC004152, AC004814, AL031121, U18391, AP001172, AC002470, AC008008, AF015157, AL022322, AL031680, AC004650, AC005913, AC006213, AC005291, X55925, AC007676, AL049795, AL034549, U18392, U57006, AF077058, AC006251, U18393, AL049766, AC000003, AF015156, AC002430, AB023049, AC005280, X54176, AC005288, AC005535, AC004675, AC006430, AL008629, AC005231, AC005914, D84394, U18387, AL035587, AC007384, AC004263, U18398, AC004929, AF088219, AC000396, AL049557, AP000193, AC005046, AL121653, AL008716, U57007, AC003983, AC016025, AC005900, AC003074, AC006019, AL031729, AL121603, X55926, X54181, AC007541, X54180, AP001054, I51997, AC004234, X75335, U18399, X55931, X53550, AL109801, AL033543, Z98742, D87675,

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HNHNT20	7552	773683	1 - 265	15 - 279	T63118, AW137918, AW003112, AL968073, AL134462, AA514255, AC003007, and AC005632.
HNHNQ08	7553	958377	1 - 422	15 - 436	H70153, and AC006071.
HNHNIP81	7554	928378	1 - 604	15 - 618	D51060, C14014, D58283, AA305409, D80253, D80024, D80166, D59619, D80210, D80240, D80366, AA514186, C14389, D80043, D81030, D80133, D80247, D59859, D80212, D51799, D80164, D80219, D51423, D80022, D80391, D59787, D80195, D80188, D80248, C14331, D59502, D59467, D57483, D59275, D59610, D80227, D81026, D50995, D80196, D80439, D80251, D80269, D59889, D51022, D50979, D80268, D80522, C15076, D59927, AA305578, D80038, D80193, D80045, D80241, AA514188, AW360811, D80378, AW177440, D80302, C05695, C14429, AW178893, AW377671, AW375405, D80157, T03269, C75259, AW178906, AW179328, AW366296, AW360844, AW360817, D59373, AW375406, D51103, AW378534, AW179332, AW377672, AW179023, AW178905, D51759, AW360841, AW378532, D58253, AW177731, AW177501, AW177511, D80132, D80134, AW352171, AW377676, AW352170, AW178907, AW378528, AW178762, AW179019, AW179024, D51250, AW176467, AW178983, AW177505, D81111, D59653, AW179020, AW178775, AW367967, AW369651, AW178909, T48593, AW177456, AW179329, AW178980, AW178914, AW177733, AW178908, AW178754, AW179018, C06015, AW352158, AW352117, D80949, AW178774, D59695, D52291, D45260, AW352120, D59627, D51079, AW179004, AW179012, AW378525, AW352163, F13647,



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HNHNP66	7555	918684	1 - 324	15 - 338	AI247886, and AI133558.
HNHNO01	7556	915358	1 - 380	15 - 394	AI186854, and AC006453.
HNHNM39	7557	950971	1 - 385	15 - 399	AI124612.
HNHNK02	7558	918715	1 - 499	15 - 513	AA814193, AI523747, AI699155, AA861334, Z38674, and AW129261.
HNHNJ24	7559	859836	1 - 389	15 - 403	Z45490, AA381008, R99526, D59502, D80195, D80164, D80166, C15076, D80022, C14389, D81026, D80193, D59619, D80210, D80240, D80045, D80188, D59467, D59275, D80227, D81030, D80212, D80219, D58283, D59859, D80391, C14331, D59787, D51423, D51799, D80253, D80043, AA305578, D80269, D80038, D80196, D50979, D59927, AA514188, AA305409, D59610, D57483, D80378, D80366, D51022, D50995, D59889, D80024, D80439, D80133, AW360811, D80248, D80251, D80522, D51060, AW177440, D80241, AA514186, C14014, AW178893, D80247, D80302, AW375405, T03269, D80268, AW366296, AW177456, AW377671, AW179328, AW360817, AW377676, D51103, AW375406, AW378534, AW179332, AW377672, AW179023, AW178905, D80157, AW178762, D80132, AW378532, AW352171, C06015, AW352170, AW177731, AW178907, AW378528, AW179019, AW179024, D80168, D51759, AW1250, AW178906, AW179020, AW178980, AW177733, AW178908, AW179018, D59695, AW177728, C03092, AW369651, T48593, D80134, D80949, D52291, D58253, AW178914, AW178774, AW378543, AW378525, D80258, D59503, D45260, AI525923, AA809122, AW178781, AW178911, AW378540, AW352163, H67854, H67866, AW360834, D59627, T03116, AI905856, AW367950, T11417, C14407, F13647, D59317, C14077, D80064,

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HNHNH51	7561	974343	1 - 324	15 - 338	AC003971.
HNHND85	7562	870121	1 - 943	15 - 957	AA071005, AA071202, AW073232, A1239470, A1699750, A1961252, and A1480252.
HNHND81	7563	974334	1 - 404	15 - 418	
HNHND07	7564	952273	1 - 411	15 - 425	H73026.
HNHNB92	7565	790945	1 - 395	15 - 409	AW452355, AA458631, and AW340986.
HNHNB85	7566	783887	1 - 446	15 - 460	H91962, AA203711, AW237711, A1566217, and AW378142.
HNHNB02	7567	918709	1 - 246	15 - 260	T70858.
HNHFMZ49	7568	859842	1 - 694	15 - 708	AA136727, AA683031, AA229218, A1471543, R45882, AA229121, A1567674, A1924251, AL041895, AA838140, A1053790, AL120269, A1051526, A1799545, H58149, T59285, AW406447, A1671077, AW131249, AW102955, AA469441, AW247819, A1907046, R08190, AL045053, Z33541, AA284179, AA563818, AA225634, AA076632, AA075754, AA344161, AA102235, A1740499, A1281401, AW086465, AA693450, A1859744, Z78385, A1284640, AW238733, H80899, A196573, A4317170, A1205126, AA558697, H64560, A1749284, A1435507, AA340003, AW248523, AA362917, A1499094, AA586655, AW069807, AA165462, A1286356, AA601355, AW074398, AA663306, H86264, AL047602, AA059154, A1471481, H86301, AW103415, AW406162, F29989, AA483034, AW276435, AA441788, A1246541, AA299115, AA229188, W60516, AA669251, AA904218, AA916039, F36273, A1049722, F32705, AA350859, AW080134, F32395, AA654627, AA714595, AA098922, AA470985, A1251002, AA229785, H64777, A1435544, AA649642, AA652057, AL038785, A1282832, AW338869, AA605274, A1890923, AA587256, AW236342, A1350211, AA252763, AA021552, A1287964, AW419262, A1962050, A1053672, AA515435, AA831388, AA515051, A1289067, AA177061, AA557325, A1929531, AW264973, AA364456, A1688846, A1339850, AA176924, AL118947, AW193432, AW166815, AL120483, AL042753, A1371070, AW419118, A1334443, AW193265, AW162049, A1312149, AL043721, AW265197, A1341664, A1358343, A1110770, AA112299,

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HNHMY52	7569	975207	1 - 610	15 - 624
HNHMS26	7570	975206	1 - 437	15 - 451
				AA410788, AI355246, AW275432, AI224619, AI917132, AI859906, AI056177, H29914, AI190648, AW419389, AI612802, F35684, AA599080, AA169245, AA315361, AI362442, R67701, AI754767, AI282479, AI312090, AA719564, AI312784, AW166611, AA228778, F30158, AC003041, Z99943, AC005913, AL096702, AC005940, AL031589, AC006252, AC010205,

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HNHMQ86	7571	784986	1 - 413	15 - 427	AL208970, AL539280, AA136699, AA609668, AA812915, and AL020997.
HNHMQ28	7572	859847	1 - 385	15 - 399	R07682.
HNHMF02	7573	918649	1 - 295	15 - 309	AL214402.
HNHLY58	7574	859849	1 - 557	15 - 571	AA601385, AA251682, AJ003636, AA679811, and AP000523.
HNHLW34	7575	859850	1 - 595	15 - 609	Z40220.
HNHLW10	7576	963542	1 - 413	15 - 427	AA680257.
HNHLR36	7577	859851	1 - 573	15 - 587	AA665071, AA826177, W85860, AL119541, W89152, AL538106, W67486, W67485, AL149238, AA976584, AL472070, AW071302, AA297443, R10107, AA525156, AC003108, AC006121, AC022517, AC002470, AL080243, AL031289, AL050308, AC003075, AC004196, AC004197, AC005523, Z83822, AC003687, AB003151, AP000688, U82695, AC009399, AC002530, AC003071, AC003663, Z97054, AF111168, AC005102, AC006323, AC002045, AB020863,

HNHLQ07	7578	952279	1 - 641	15 - 655	AL022394, AC005871, AC008372, AC006111, and AC007052.
HNHLG36	7579	855071	1 - 544	15 - 558	AA700856, W92080, W92074, and U47924. N63437, A1042513, AA988159, N95744, A1241692, AW025809, A1341411, A1479298, A1827201, AA718988, AW298184, AA514475, A1078116, AA456139, AA954932, AW305231, A1734889, A1224855, A1093059, A1912915, A1690289, A1807586, AW082516, A1375429, A1857358, AA846245, A1125609, A1830516, N25902, A1469756, A1631154, A1394192, AA258738, A1951377, A1299480, AA150203, A1610824, A1434048, AA449685, H09775, A1799883, A1453490, AW337996, A1289435, AW440580, A1972947, A1289432, A1620722, A1863491, AA594584, AW167132, A1758979, AW264027, A1458169, A1672560, W93405, A1623819, A1814412, AA167742, AW014387, C03567, AA648408, T54772, AA209462, AA150039, A1890890, AA744971, A1952039, A1963445, A1869379, H24845, R62398, F21778, AA159073, AA081121, AA709203, A1383705, AA693450, and AB029022.
HNHLD70	7580	756668	1 - 402	15 - 416	AA199808.
HNHLC01	7581	915363	1 - 555	15 - 569	AA577871, AL078475, AP000025, AP000026, and AL050302.
HNHLB03	7582	923091	1 - 596	15 - 610	R87227, H51542, R84527, H39138, AW205403, A1970379, A1651385, A1038507, AA977060, AC006312, AC005630, and AC006328.
HNHKT86	7583	785104	1 - 366	15 - 380	R43189, AW297929, T26440, T26439, and T17457.
HNHKQ50	7584	723868	1 - 435	15 - 449	R94028, AA848093, R93984, and AA905345.
HNHKP03	7585	923276	1 - 706	15 - 720	A1023587, AA889354, AA846791, and AL022333.
HNHKI61	7586	859925	1 - 651	15 - 665	AA262089, N40358, Z99127, Z94721, AC005777, and AL031737.
HNHIS54	7587	730706	1 - 550	15 - 564	R55602, R11681, and AC004913.
HNHIR83	7588	781195	1 - 508	15 - 522	R15158.
HNHIC85	7589	784345	1 - 571	15 - 585	W95091, and H49177.
HNHHL58	7590	736064	1 - 488	15 - 502	AA088554.
HNHHG53	7591	830068	1 - 328	15 - 342	AA189067.
HNHHF86	7592	784698	1 - 371	15 - 385	
HNHHF61	7593	741836	1 - 307	15 - 321	
HNHHF52	7594	726576	1 - 343	15 - 357	A1189682, AA491767, W02419, AW407007, AW105463, AA747977, T51556, A1491765, AA199582, AA719433, A1762528, A1573009, AL041375, A1246996, A1445224, AW275432, AA714110, A1870453, AA558366, F00937, AA722336, H38769, AW304536, A1278972, C18779, AA225754, AA225392, T71936, AW088656, A1358557, AA219349, A1439525, AA458534, A1206841, AA745628, AA502532, A1445297, T90477, AA947369, AW028950, AW023111, H29914, T50676, H67064, F35684, A1608751, A1798493, AW105729, AL045476, AA584756, F30310, AL079734, A1445934, AA604843, AA613761, A1356440, A1623805, AA156323, R99034, AW272294, A1242614, AA515939, AA228979, H81346, AA229823, A1355103, AA708760, A1879951, AA302982, AA225406, AA018231, A1311779, A1635028, F23338, AA018923,

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HNHHF39	7595	705407	1 - 333	15 - 347
HNHHF38	7596	709278	1 - 308	15 - 322
				AA610822, AC006044, AL121852, and AC000004. AA084070, F28776, AI610159, AJ754955, AA654771, AA482711, R77905, AA501600, AW406162, AI921649, AA199692, N43757, AI355206, AI281881, AA127353, AA491814, AA559290, AI471481, AI200051, AI859742, AA826303, AA194761, AA886584, AI283911, F29989, AI061334, AW406755, AI537030, AW169537, AA604156, AI801600, F36273, AI802526,

AW193265, AW088058, AA364456, A1284640, A1160117, AA515128, AL046409, AA569187, C75026, AA394271, AW243960, AA284179, A1469624, A1350211, AL041412, AW072587, F35673, A1917271, A1291268, M86058, A1291124, AA177061, AW276827, A1471543, A1298710, A1431303, A1688846, A1279165, AW193432, A1148277, AA649642, AW162489, AW088202, AW270270, A1871722, A1653905, A1446638, AA074130, A1434695, H57810, A1358229, A1206785, AA642060, AA161181, AA515051, AA483731, AA587604, AA669416, A1344844, AA664899, AA744088, AA610491, AA744074, AA634238, AW148792, A1198376, AL119691, AW406447, AW162049, AA745355, F29702, A1341664, A1538433, AA828704, A1929531, AA703820, A1367975, AW419262, A1613280, AA126051, AA126035, AA338522, AW247819, A1754658, A1805016, AW167372, AA552856, AA350859, AW029038, AA349638, A1287651, AA581903, AW080134, AA837740, AW236342, T07451, A1281903, F34498, AA654968, A1567674, A1619997, A1192631, AW021583, T17016, AW079135, H88666, A1732120, AA528516, AA365302, N41375, A1801482, A1365988, F26152, AA614069, AA652057, AA348311, R91994, F09736, R98967, AA448858, A1653636, W00582, N52544, H86301, A1962050, A1303008, A1358343, A1133636, A1254615, A1672135, AA714453, AA613345, W79504, A1358571, AL044940, A1890923, A1252554, H56013, AW166815, AA515224, A1334443, N25296, AA720702, AA514737, AA630925, AW339568, A1144330, A1345654, AA601892, AL041368, A1624698, A1539563, A1339850, AW301350, AW303196, A1053672, A1963720, AA346454, A1625244, AW274349, W07122, A1889923, AW151884, A1904894, A1349850, AA664535, A1251002, AA535661, A1160582, F19012, F28308, A1355224, H86264, AA503258, AW407633, AL120687, A1357288, AA347927, A1110770, AA843450, A1273185, AA584145, AA134367, A1364020, AA745582, AW406659, A1312149, AW265385, AA469451, AW303876, W73048, A1653886, AA595782, F25135, AA490030, AA653975, AA713815, A1017024, M62272, AP001052, AC005775, AL031668, AL132800, AL022237, AC007243, AP000952, AC007528, AC007688, AF023268, AC005412, AC006538, U18396, AL022576, X55928, AL034402, AC006011, AC007392, AC005900, AF015150, AL049759, AP001046, AL133241, AC004593, AC009294, AL008728, AF077038, AC004671, AL022476, AC006116, AC003035, AP000885, AD000684, AC004987, AL133448, AP001068, AP001067, AC008033, U02054, AC005516, AC005295, AC004963, AC002472, AC006449, D85620, AC006539, AC004606, AC005081, AC006511, Z86090, AC005158, AJ011930, AP000555, Z98051, AC005069, AC005722, AP000351, AC006271, U50871, AC006556, AC007285, AL121694, Z83821, AF196969, AL020991, AL031848, AC005065, Z98950, AL096791, AC007878, AL033392, AC005154, AC006001, AC007919, AC006455, M37551, AL049760, AC005083, AC004167, AL096774, AL031734, AC006427, AC004799, AP000304, D83989, AC003688, AL031319, AP000128, AP000206, AC002430, I51997, AL049776, D84394, X75335, AC006285, AP000359, AC004773, AC005740, AC005383, AC004638, AC005229, AC007934, AC007384, AL031777, AP000245, AC006596, Z68192, AC004592, AL049696, AL008709, AC005002,				
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HNHHF37	7597	708714	1 - 350	15 - 364	H65022, and AA186889.
HNHHF28	7598	694365	1 - 331	15 - 345	AL035454.
HNHHF13	7599	657245	1 - 124	15 - 138	
HNHHF03	7600	924221	1 - 235	15 - 249	AA486925, AA188664, AA761430, AC005912, AC007563, AL109623, AL049843, AL034419, AL078477, AC006948, AD000864, AC000353, AC005562, Z81364, AC005632, AC004990, Z84469, AL022476, U91323, AL031005, AL031053, AC002288, AC003037, AC004601, AL049749, AC004514, AC005684, Z95116, and AC004832.
HNHHC61	7601	741839	1 - 359	15 - 373	AA459664, AA459676, and W38373.
HNHGX61	7602	948731	1 - 403	15 - 417	AA774118, AF700830, AL023883, AC002301, and AC006504.
HNHGV62	7603	743400	1 - 390	15 - 404	AL284640, AL046205, AW327868, AL046409, AL048925, AA984708, AL1610159, AW276827, AA828704, AL467919, AW021583, AL431303, F36273, AW193265, AW276817, AL1613280, AA523843, AL281881, AL357551, AA630925, AA521399, AL345654, AA521323, AL350211, AL270117, AL305766, AA758934, AW338500, AL801591, AL037683, AL379719, AL471572, AW419262, AL334443, AA621858, AL091495, AA669840, AL219406, AA528516, AW148792, AL246409, AW407632, AL375710, AL041690, AL471481, AW338086, AA713891, AA133333, AL133164, AA679672, AL161997, AL688846, AW438643, AL138455, AA490183, AL969436, AA654771, AW339568, AL110770, AW193432, AW270270, AA514819, AA493621, AL341664, AW238278, AA559290, AL499503, AL761471, AA587256, AL048626, AA938225, AA133406, AA491284, AL937850, AA977743, AL688928, AA569471, AL623898, AW157005, C75026.



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HNHGU56	7604	859953	1 - 760	15 - 774	AA614095.
HNHGT92	7605	496480	1 - 387	15 - 401	
HNHGT84	7606	781977	1 - 393	15 - 407	AL037067, AL224583, AA595661, AA603400, AI049845, AI439525, AA489390, R42954, AI690379, AW250029, AW272294, AA810376, AA513851, AA225406, H24331, Z98946, AC000075, AP000502, AC007371, AC005664, AP000553, AL117258, Z97054, AL109623, AL135744, AC004686, AC009516, AF053356, AC006547, AF111168, AC004448, AC004929, AC005207, Z95113, AP000211, AP000133, AL031680, AF205588, AL031281, AC005158, AC015853, AC007676, AC000084, AC002115, Z95114, AC009247, AC006557, AP000039, AP000107, AC004134, AL034417, AL020995, AC004771, AL022238, AC004526, AL117339, AC006449, AC007055, AC004106, AC005696, AC007065, AB026899, AC005874, AF134471, AC005519, AC005663, AL034429, AC007066, AC005666, AC004019, AL022326, AC004967, U91321, AL117337, Z86061, AL008582, AC005516, AC005899, AL096794, AP000509, AL035400, AC005229, U62317, AP000557, AL133245, AP000500, AC016027, AL031985, AL132712, AC005261, AC004525, Z93023, AC004985, Z96074, AC005730, AC002126, D84394, AL031311, AC000120, AC005081, AC002472, AC003101, AC004821, AC004812, AC002401, AL031432, AP001054, AL033527, AC004673, U82668, AL049776, AF029308, AC007263, AP000511, AL034421, AC004921, AC005011, AC004231, AP000210, AP000132, Z93241, AP000345, AC002563, AC008038, AL031678, U91318, AC003006, AC016830, AC004477, Z98051, AL049869, AC005529, AC007151, AC005288, AP000359, AL050321, AL139054, AP000505, AC005746, AC002544, AC005189, AP000248, AL109963, Z85986, X87344, AC004079, AC006946, AL022336, AC002554, AC006468, AC005871, AC002470, AC004841, AL034423, D87675, AC004587, AC003043, AC007207, AC005911, AF109907, AC005412, AF165926, AC004236, AC005355, and AC007630.
HNHGT80	7607	775409	1 - 385	15 - 399	
HNHGT15	7608	660304	1 - 629	15 - 643	AA179041, and AA176902.
HNHGT09	7609	625615	1 - 337	15 - 351	AA342238, AI283938, F29968, AA610255, AA523695, AI869797, AA488551, AA584765, AI358712, AI932871, AA598605, AI962030, AA489483, AI280535, AA299721, AA903369, AI049538, AA578621, AA586433, AA568204, AA570740, AA483606, AA570441, AA772151, AA878492, T47138, AW008184, AA361513, AW302017, AA577824, AA384890, AW078909, AA280509, F30310, AI653776, AI493583, AI925665, AA525753, AA581471, AA507814, AA502532, AW082104, AA772016, AL078477, I34294, AC004386, Z84466, Y10196, U95743, AC004999, AL031643, AC002287, AC003109, AL035460, AL117338, AL022719, AP000466, AC008115, M87889, AL049643, AC007283, AC006965, AC002420, AL136295, AC006518, AC006509, AC005972, M29929, AL121653, AC008033, AL031622, AC018769, AC003684, AC004973, AC004025, U80017, AC006581, AL022316, AL023553, AL132800, U02047, AC007537, AC004081, AC004816, AC005399, AB023050, AC005879, AL034417, AL031668, AC000353, AC005304, AL117339, AC005376, AP000248, AC005227, AL110114, AC006016,

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HNHGS24	7610	677228	1 - 791	15 - 805	R12665, AI762545, W88500, AI434243, AI689719, AW138454, W88987, R16402, D45650, and W89080.
HNHGO45	7611	582523	1 - 865	15 - 879	R97614, R91776, D81661, and AI034062.
HNHGN27	7612	859972	1 - 417	15 - 431	AA393618, and AA398697.
HNHGI60	7613	740396	1 - 476	15 - 490	AA017482, AA019002, AA019302, and R84777.
HNHGI03	7614	923829	1 - 439	15 - 453	AL079734, AA572813, H68343, AA579152, F16848, AA225890, AA838091, AI693979, AI446452, H38769, AA582746, F30650, AI734852, AI053784, AI459733, AL044701, AI280601, AI345497, T90477, AA229159, AA526643, AI078409, AI285705, AL041375, H47835, AA579130, AW242279, AA303049, AI282629, AA847585, AA342238, T17332, AI114557, AA873303, AA847047, AA558404, AA158549, AA715955, AA720582, AI762528, AA614010, AA452887, AA215470, AI587467, AI792464, T17135, AW162227, AI858148, AI609972, H53284, H54252, AA598736, AW338268, AA720774, AW272294, AA225406, AI880889, T07974, AA581247, AI870453, AI865776, AP000152, AC004983, AC005067, AC005539, AC007731, AC005500, AC006211, AC006130, AP000212, AP000134, AC006511, AC010205, AF053356, AL031577, AC004966, AL049569, AC004985, AC005409, AC004893, Z95114, AC007216, AL034420, U95740, AC004813, AC004033, AF111167, AC005049, AD001527, AC006449, AC002492,

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HNHGH83	7615	781208	1 - 391	15 - 405	AA199736, AJ003359, and AP001062.
HNHGH22	7616	859983	1 - 432	15 - 446	H47804, and AC004968.
HNHGG39	7617	561093	1 - 315	15 - 329	T60696, AW246223, and AF113544.
HNHGF28	7618	686735	1 - 722	15 - 736	N35183.
HNHGE91	7619	790212	1 - 433	15 - 447	
HNHGE81	7620	777955	1 - 375	15 - 389	AW021741.
HNHGE79	7621	775214	1 - 303	15 - 317	R67701, AI431513, AI077941, AI270476, AA375133, AW302017, AC005081, AC004526, AL139054, AL109827, Y18000, AC003690, Z49866, AC002400, AC004882, AC000353, AP000240, AC006079, AL110215, AC002045, AC007292, M17262, AC004771, AL035587, Z81308, AC005529, AL008725, AL021154, AC005049, AC005578, AP000702, AC005015, AP000703, AC005377, AL049694, AL049759, AC007277, AL135960, AJ131016, AL022165,

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HNHGE68	7622	753052	1 - 531	15 - 545	
HNHGE44	7623	683294	1 - 516	15 - 530	AA458759, AA457494, and AA679166.
HNHGE31	7624	698046	1 - 367	15 - 381	
HNHGE24	7625	677234	1 - 420	15 - 434	
HNHGE12	7626	970722	1 - 420	15 - 434	
HNHGD08	7627	959494	1 - 474	15 - 488	TS4356.
HNHGC92	7628	792740	1 - 407	15 - 421	
HNHGC91	7629	790199	1 - 212	15 - 226	N64605, AC004902, and AF086089.
HNHGC45	7630	720747	1 - 403	15 - 417	D81926, H55330, AP000556, AP000557, and AC007308.
HNHGC32	7631	699286	1 - 413	15 - 427	Z32887, Z33559, T18597, A1526078, A1557864, D59751, D50992, A1535639, A1535660, A1536138, A1557262, A1541356, A1541205, A1525500, A1525556, A1557082, A1557533, A1540903, A1541365, AA058620, A1557809, C14228, H65400, A1525316, A1557084, A1557317, A1525302, A1557312, A1557731, A1541321, A1525852, A1536150, A1541353, A1525661, A1541075, A1557258, A1557602, A1525757, A1557474, A1557238, A1536070, A1557155, R29657, A1541450, A1546829, A1541034, A1557241, A1547177, A1540974, A1557154, A1535828, A1535813, A1557041, A1541346, A1541154, A1557408, A1541027, A1557039, A1535994, A1557810, A1541048, D30843, A1557543, A1541362, A62300, AR050070, A62298, A82595, A82593, U94592, Z30183, AF006072, U45328, and AR025466.
HNHGC21	7632	670949	1 - 411	15 - 425	T16056, AA339752, AA346514, F09736, AA341336, AA594746, AA641400, T07420, AA508026, AA361273, W30861, R01434, AA492140, A15265800, AA630773, AW129950, A1547110, C15093, AA669616, N27615, A1192839, AA551201, AA649722, F02342, AA316183, AA347170, AA078691, AA704643, AA325597, AA053551, AA320941, AA348504, H86097, AA86992, AA078537, T63030, AA363368, D19768, AA332204, H80306, N58674, AA357552, AA325787,

					N22533, AA129329, AA481050, AA283761, AL044438, AA132914, F05944, AA720691, AA307598, L29255, U95740, X02883, Y12508, L43392, AB015355, AB003151, AP000141, AP000088, AP000495, D83657, AC006432, Z46936, AJ009610, AP001060, AC005771, AC004841, AP000431, AP000302, AC004979, AP000046, AP000114, AC005060, AC007688, AF060568, U40401, L49046, M63796, AD000092, M22568, U67274, U20770, AJ246003, AC005566, D87675, Z83313, Z92844, U13056, G69951, AL021392, AF003528, AC006596, AP000510, AB023048, AL050337, Z68192, AB023052, AP000513, and AC005754.
HNHGC20	7633	859991	1 - 413	15 - 427	
HNHGC19	7634	668692	1 - 393	15 - 407	
HNHGC08	7635	962224	1 - 258	15 - 272	AL050403.
HNHGC07	7636	953414	1 - 424	15 - 438	
HNHGB12	7637	970726	1 - 663	15 - 677	AI493432, AI765576, AJ083682, AI151327, AI138460, AI219026, and AA846762.
HNHGA53	7638	973803	1 - 521	15 - 535	AL044060.
HNHGY68	7639	752305	1 - 519	15 - 533	AA223974.
HNHFX08	7640	959475	1 - 494	15 - 508	AA601442.
HNHFX10	7641	961275	1 - 309	15 - 323	
HNHFX08	7642	959484	1 - 403	15 - 417	
HNHFX07	7643	953403	1 - 437	15 - 451	AA224213.
HNHFXV49	7644	975415	1 - 754	15 - 768	AI239477, and AW303399.
					AL135721, AI267283, AL039006, AL138332, AI654729, AA487851, AW089846, AA625090, AI922003, AA126794, AA167579, AA603182, AI889719, AW419399, AA830603, AA984199, AW189511, AI637571, AA112088, AA601406, AI695619, AA113978, AA169156, W90097, AI821127, AI821234, T63720, AA398565, AA457176, AI354337, AI821889, AI821871, AA469959, AA458716, AA683209, N76330, AA456920, AA640499, T90251, AI797528, AA121839, AA219168, AA600117, AA206539, AA658904, W37681, AL045624, AA643815, AI978961, AA873328, AA584119, AW407655, AI742894, AI000348, AA382693, AA242790, AA227585, AA577803, AA552879, AW302809, N85750, T48646, N49611, AA195197, AA309378, T59821, AA548549, AA577840, AA613153, AA664727, AA370642, AA357788, AA577773, AA829583, AA938094, T56714, T60735, AA282876, AA136977, D57535, AL119263, AA457748, D56416, AA594706, T59577, AA577825, AL119911, AA856868, T07755, AI453652, R76207, AA577875, AA211113, AA487304, AW188806, T05108, R88959, T63142, AA486808, AA309367, AA577743, AA205983, AI003198, AA370942, AA456204, AA352946, AA457322, AA174121, AA126847, AA179985, AA456979, AA661560, AA088273, AA487519, AA489899, T63021, AA456941, AA775943, AA319956, AA668372, AA772877, T20144, AA121840, AA308174, AA577765, AA504660, AI065066, AA584502, AA490015, AA557920, AA613193, AA372082, H47700, AA507553, AA343460, T06609, AA375449, AA593549, AI207664, AA330161, AA188838, AA299014, AA167621, AA169557, AA483220, AA180281, AA169228, AA594147, AA713895, AA983440, Z83841, AC004764, AC007392, AC006133, AC005326.

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HNFV30	7645	566339	1 - 331	15 - 345	
HNFU64	7646	937179	1 - 527	15 - 541	
HNFU56	7647	733513	1 - 577	15 - 591	H49829, and W26793.
HNFU12	7648	970882	1 - 429	15 - 443	AA122097, and AC004538.
HNFR69	7649	757646	1 - 435	15 - 449	AA121914.
HNFPP94	7650	888666	1 - 295	15 - 309	
HNFPP89	7651	786967	1 - 390	15 - 404	AA002022, AW016693, AI400310, AI400321, AI242437, AI383077, and AC002112.

HNHFP03	7652	924606	1 - 520	15 - 534	AA278805.
HNHFM74	7653	506283	1 - 313	15 - 327	
HNHFM54	7654	486847	1 - 551	15 - 565	
HNHFL96	7655	576414	1 - 483	15 - 497	U91323.
HNHFL28	7656	973273	1 - 604	15 - 618	
HNHFLH24	7657	903741	1 - 467	15 - 481	D80212, D59619, D80210, D80240, D81030, D80166, D80219, D51423, D58283, D51799, D80253, D80195, D59859, D80193, D80188, D80391, D80227, D80022, D59927, D59889, D80196, D80045, D80269, D80043, D80038, D80366, C14429, D59275, D57483, D59502, D80134, D80024, D50979, D59610, C75259, D80378, T03269, D80268, C14014, D50995, F13647, D80241, C15076, D80949, D59787, D80164, C14389, D81026, D58253, C14331, D51250, D51060, AA305409, D51079, D59467, D80168, D81111, AW178893, C14227, AW177440, AA285331, D80522, Z21582, D51022, AW179328, D80064, AI910186, AW178775, AW378532, D80248, D59695, AA305578, C14298, AW377671, AW369651, AW352158, D80251, AI903856, D52291, D51097, D80133, AW178762, AA514188, AW177501, AW177511, AA514186, AW360834, C05695, C14407, AW360811, D80439, AW352117, D80132, D80157, AW176467, AW378540, AW375405, D59373, D80014, AW179220, AW366296, AW360844, AW360817, T11417, AW375406, AW378534, AW179332, AW377672, AW179023, AW178905, AW377676, D80302, AI557751, AW352171, D51759, AW178906, AW352170, AW177731, D80247, AW178907, AW179019, AW179024, D51213, T02974, AW177505, AW179020, AW360841, AW178909, AW177456, AW352174, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, T03116, AW179004, AW179012, AW178914, AW378525, AW367967, D51103, D58246, D80258, AW177722, AW177728, AW378539, D59653, AW179009, C06015, AW178774, AW178911, AW378543, AW352163, D59503, C14077, D58101, AW178983, AW352120, AW178781, T48593, D59627, AI557774, AW177723, D45260, AW177508, C14975, AI535850, AW378533, C03092, H67854, AW367950, AW177497, D80228, H67866, AA033512, AA809122, AI525917, AI525923, AW178986, D51221, AW177734, D59317, D45273, C14344, D59474, C14973, D50981, AI525920, AA514184, C14957, D60010, C14046, AI535686, AI525227, D59551, AI525235, D60214, AI525215, T03048, AI525912, AI535961, AI525242, AW378542, C05763, AI525925, AI525222, D51053, D31458, C16955, Z33452, A62298, A62300, A84916, AJ132110, X67155, A67720, A78862, D89785, A25909, D26022, D34614, AR018138, Y17188, D88547, AR025207, X82626, AR008278, AF058696, I82448, X68127, AB028859, AB012117, A85396, AR066482, Y12724, A85477, A44171, U87250, I19525, A86792, X93549, A82595, AR060385, A94995, AF135125, AB002449, AR008443, I50126, I50132, I50128, I50133, AR060138, AR066488, AR016514, A45456, A26615, AR052274, I14842, AR064240, AR066490, A43192, A43190, AR038669, Y09669, AR066487, I18367, A30438, D88507, AR054175, D50010, Y17187, A63261, AB033111, AR008277, AR008281, AR008408, AR062872, A70867, AR016691, AR016690, U46128, Z32749, A64136, A68321, D13509,



						AR060133, I79511, S69292, U87247, AB023656, U79457, AF123263, X72378, AR032065, AJ000347, X93535, and AR008382.
HNHFH23	7658	675942	1 - 721		15 - 735	N31451, and N41451.
HNHFF79	7659	638126	1 - 267		15 - 281	AA136943, T02866, AA315673, AA179174, AA361929, AL120645, AA736954, AA834194, AA778965, AA577825, AA578664, AA668252, AA218852, AA983440, AA775329, AA486768, AA167544, AA603182, AA583392, AA582052, AA618459, AA662979, AA601625, AA188692, AA935394, AA584747, AA167492, AA180454, AA680277, AA834071, AA663367, AA663004, AA630430, AA713821, AA219034, AA206780, AA714486, AA584834, AA486097, AA504875, AA169233, AA773954, AA584435, T65750, AA489989, AA121767, AA577875, AA668151, AA464930, AA584534, AA451922, AL047233, T03057, AL538493, AA601406, AA167538, AA593497, AA169344, T59619, AA663003, AA720805, AA720777, AA489999, AL880288, AA668699, AA780751, AA490015, AA211180, AA679143, AA721049, AA457219, AA971198, AA775210, AA586654, AL267399, AA577803, AA601418, AA577840, AA490246, AA577655, AA593542, AA458672, T49955, T03259, AA613193, AA564831, AA594081, H85238, AA662985, AA169228, AA169557, AA668372, AA487519, AA457507, AL253435, T56669, T48647, AA581910, AA976274, AL043280, T55332, AA584907, AA179985, AA434080, AA188953, M78222, AA563828, AA485874, AA773127, AA490019, AA586665, AA121840, AA601628, AA983272, AA490032, AA489850, AA668327, AA180281, AA490054, T59685, AA584459, AA581901, AA458783, AA782269, AA584627, AL119618, T59877, AA594706, AA778953, AA515456, AA485341, AA456926, AA989133, AA722310, AA774071, AA774057, AA668161, AA307312, AA126847, AA456941, AA601412, N25053, AA714107, AA772877, AA169346, AA490183, AA169351, AA180465, AA584768, AA613153, T49316, AA169553, AA325093, AA594173, AA663091, AA780820, AA357787, AA456943, AA584466, AA827415, AA112323, AA112316, AA664023, AA180338, AA601464, AA594015, T90675, AA679325, T57694, AL460363, AA593549, AA457652, AA121876, AA174132, AA761025, N79938, AA582414, T39228, AA680290, AA663500, AA594147, AA683281, AL267828, T96260, AA458713, AW129720, AA136934, T02841, AA584502, AA584625, H92599, AA657923, AA581172, AA456979, AA219051, AA136926, AA780730, T61944, AA487603, AA594753, AA587520, AA780571, AA421028, AA668406, N23864, AA490110, M77951, H70919, AA487044, AW394251, T57385, T03243, AA174113, T94872, AA121875, T94346, AA602130, AA176467, T50445, AA663223, AA179813, T93559, AA668285, AA577921, AA581666, T63467, AA834066, AA577773, AA214189, AA715716, AA663376, AA188838, AA188613, AA176906, AA457548, AA218913, AA601402, AA715738, AA490150, T47178, T41239, AA668241, AA721000, T92774, AA668412, AA218670, AA720943, AL138058, AC007392, AC003686, AL133249, AC005326, AL135784, AL035397, AC005019, AC004610, AP000078, AL096817, AC004886, AL049828, AL117337, AC011198, AL049589, AC006962, AF011889, AC006989, AF036235, AL022353, Z69648, AF198097, AC002478, AL031122, AC006336, AL022171, AP000952, AC003086.

					AC004028, AC002086, AC005187, AC006155, AL022725, AC007870, AC007425, AL078463, AL022400, AC007023, AF126403, AC005023, AC006385, AL121577, AC006925, AC004216, AL031116, AL109865, AF205588, AL008723, AL078644, AC007128, AC005297, L81653, U93569, U93565, M80340, AL139229, Z69838, AP000314, D87003, AC000365, AL035459, AC004694, AC006957, AC005248, AC004043, AP000194, AC006963, AL049713, AL096799, AP000141, AB020876, AL035594, AL109853, AF188024, AL117375, AL109620, Z92543, AC003051, AC004976, AL031274, AC006355, AC004056, AC003029, AC007002, AF106564, AC006054, AL035665, AF121898, AC004081, Z98946, AC002076, AL023806, Z92844, AC007350, AC007444, AC004957, AP000088, AC006070, AL031599, AL121852, AC007556, AC005510, Z98255, AC006039, AL022165, AC005537, AL078623, AC006079, AC009405, AC006239, AF165124, AC005908, AC002480, AL034384, AP000500, D87675, AC007250, AC002106, AC005549, AC002080, AL049861, Z96810, AC007254, AC002416, AC005349, AC005832, Z99570, AB017651, AC005209, M19503, U93574, U93564, U93563, AF148856, U93566, U93567, U93572, U93573, AJ010598, AL023095, AC006351, Z81145, AF020662, AC007013, AC005852, AC005491, AC004603, AC004711, AC004459, AC004200, AP000968, AC005688, AL109621, AC006002, AC007074, AL023582, AC004764, AF104455, AC005195, AL022575, Z95124, AL022308, AL031176, AL049859, AC004979, AC005885, Z72001, AL009176, AL096776, AL136363, AL033530, AC003090, AL031768, AC006061, AL078622, AL034407, AL021069, Z98172, AL049550, AL022578, AC011594, AC006383, AC007043, Z82212, AP000365, AL031656, AL031446, AL096677, Z95325, AC005090, Z82195, AL121825, AC003085, AL034561, AL022153, AL035464, AP000548, AC004000, AC004704, AC004879, AC006151, AL035409, AL022161, AL031985, AC005922, AC002980, AC004103, AC006975, AC007857, AL022097, AL137191, AC005344, AC006197, AL034410, AC005165, AC009479, AL049646, U82696, AC006479, AC007278, AP000696, AC008109, AC007347, AF176315, AL122023, AL035089, AC006992, AC002452, AC006265, AC005939, AL022726, AL079305, AL135960, AJ131016, AC004554, AL132985, AC002461, AL110505, AC006371, AL022401, AC005406, AC002069, AP000516, AC006566, AL133321, AF117829, AC004467, Z98751, AC005521, and AC005877.
HNHFF30	7660	692811	1 - 408	15 - 422	N55081.
HNHFE01	7661	916782	1 - 336	15 - 350	AA460407, AA459856, AI866714, AJ024848, AW410737, T63986, U91321, AC002190, AC003003, AC006290, AL135879, and AL121790.
HNHFD68	7662	576448	1 - 310	15 - 324	
HNHFB21	7663	842707	1 - 111	15 - 125	
HNHEW83	7664	781217	1 - 571	15 - 585	T77842, AI818742, T86633, AI743761, and T86826.
HNHEW18	7665	666524	1 - 397	15 - 411	T86212, F15260, and AC005369.
HNHEU20	7666	668909	1 - 442	15 - 456	N39725, and N31375.
HNHEQ03	7667	535701	1 - 682	15 - 696	AI679782, AA659324, AA812058, AA601218, AL045077, N79258, AW021774, AJ769271,

AI284640, AI344810, AL046205, AI591299, AI590522, AL037910, AA584148, AI821467, AW022715, AL045709, AA581903, AW340844, AA720702, AI696962, AL046409, AI368745, AA314069, AW303196, AW274349, AI281881, AA494038, AW162049, AI292531, AW301350, AA765768, AA469451, AW029038, AW402458, F28204, AI370094, AI305766, AI499938, AA502683, AL038785, AA501614, AI064811, AA521323, AI564185, AI370074, AA565733, AI904894, AW062724, N22032, AA847499, AA521399, AA857486, AI339850, AW020992, AI590459, AI888405, AI610159, AW088202, AL037632, AL133749, AL039187, AL120976, AI654247, AW023111, AA482896, AI708009, T32050, AA491284, AI368256, AI004705, AW072587, AL034423, AC004477, AI096791, AF001549, AC002544, AF196969, AC006285, U62317, AF111168, AC003982, AC005940, AJ010770, U95742, AC016025, AC003043, AC009516, AC007731, AC004859, AC005288, AC005291, AC005500, AL008582, AC005488, AC007216, U91326, AC006057, AC004033, AC006312, AL121652, AL133448, AC007546, AC008372, AC007055, AC003962, U63721, U95090, AC005785, AC003029, AL031431, Z93783, AC006449, AC005841, AP000692, U95743, AC004526, AC005839, Z93241, AC005821, AC002316, AC002470, AC005225, Z97053, AC005837, AC007917, AC004821, AC005412, AL020997, AC007358, AL031985, AP000553, Y14768, AC005911, AC005004, Z97054, AC007225, Z98051, AC007566, AC004987, AC007371, AC005793, AC004815, Z93017, AP000557, AL049795, AC005914, AC002565, AC005632, AC006211, AC005531, Z95152, AL035458, AL121653, AC005921, AL080243, AC005037, AC005971, AC005082, Z83844, AF038458, AC002351, AP000556, AL031295, AC005411, AC004448, AC006077, AC007537, AL117352, AC002045, AC003950, AC005358, AC005726, AL050307, AL049776, AC003101, U47924, U80017, AC002425, AF126403, AC007021, AC005747, AL049553, AL021391, AP000505, AC004841, AL049766, AC005519, AC004797, U95740, AL031659, AC005808, AL022318, AC006270, AL022238, AL035587, AL135960, AJ131016, AC005544, AC006468, AC002477, AC005756, AL049694, Z84466, AL031577, AC005088, AC005154, AC005332, AL133163, AL121658, AC006023, AC002300, Z99128, AC006146, AC004890, AC004996, Z85986, AL022313, AL049829, AL034549, AP000689, AC005280, AC006271, AC016830, AC002558, AC005049, AP000114, AP000046, AC004813, AC004596, AL049780, AC007878, AC011422, AL021155, AC001228, AC007688, AC002347, AC006487, AP000346, AC004598, AP000512, AL132777, AC006153, Z83838, AC005529, AP000356, AL008633, AP000101, AC002400, AP000694, AC006251, AC006539, AL009181, AC007308, AC006101, AC005015, AB023049, AL035683, AC007387, AL022323, AL135744, AP000248, AL020993, AC006006, AC016027, AL031311, AP000049, AF037338, AC007666, AC004099, AC006966, AL023799, AC006014, AL023553, AP000311, AF001550, AL117258, AL031005, AL022722, AL132712, AC004997, AC004491, AC011718, AL050318, AC004148, AC005005, AC007664, AC004000, AC007312, AL109627, AC008018, AC002350, AC004531, Z97832, AC000353, Z68870, AB001523, AP000088, AC005192, AC004032, Z99716, AC012384, AL022163, AC005011,

HNHEP86	7668	490390	1 - 493	15 - 507	AC004217, AL049758, AL078593, AC005324, AC012627, AC004106, U91318, AC005696, Z68276, U91323, AL021453, Y18000, AC009464, AC002039, AC007676, AC006441, AC005585, and U91325.
					AW238712, AA715955, AL280266, AA351808, AA158549, AL045476, AA936718, AL053977, AA551056, F17700, AL242502, R70883, AA309634, AA838091, AL457596, AL134615, AA654482, AL192440, AL049630, AA650447, AL280535, AA371534, AL198718, AL054418, AL557422, N95156, AL870453, AA516320, AL612142, AA362697, AA634926, AL610941, AA728861, AL753536, T07878, AL624379, W24312, AW268322, AL079196, AA570441, AL272649, AA487569, AA071045, AA526424, AL969639, AA074351, AL446561, H85808, AL031283, AC007637, AC006006, AC006965, AC002511, AC002430, AC007384, AC008273, AC00379, AC005220, AC002302, Z84487, AC006236, AC000120, Z82198, AC004820, AC002091, Z83843, AC002312, AC003051, AC005015, AL137191, AC006023, AL078477, AC011456, AL049589, AL109842, AC006511, AL023575, AL133312, AL109623, AL133246, AL022718, AL049832, AC002476, AC006317, AC005529, Z85987, AC002465, AC006515, AL133163, AL031000, AL050309, AP000245, AL109839, AF001549, AC005887, Z99495, AC005013, Z95116, Z82205, AL049834, AF031078, AL009172, AC003012, AF030876, AC006924, AC006013, AC000039, AC003010, AL031650, AC005102, AC006115, AC005670, AP000077, AL109963, AC002527, AC005839, AC007934, AC007225, AC003108, AC005746, AL049875, Z97181, AC002558, AL021396, AC004882, AC004131, AL009174, Z84466, AL049829, AL035448, AC005017, AC006578, AC008085, AC000071, AL049765, AL049869, AL031864, AL096712, AC005084, AF172277, AC006035, AL121754, AC002519, AC002425, AL122020, AC005988, AF118808, AC004750, AL133241, AL034429, AC004647, AC007099, AL109809, AL022336, AL133224, AC004659, AC005355, AC004814, AC005089, Z98304, Z93244, AL109758, AC004973, AC000353, AC007388, AC006065, AL096776, AC008009, AL031678, AC002531, Z82193, AC002991, AC006952, AC006600, Z82201, AC006365, AC006062, AL133216, AC004749, S42653, AL031985, AC002126, AC004905, AC005772, AC007308, AL033533, AC012627, AC005902, AC005972, AC003043, AC005156, AL031673, AC002429, AL031584, AB017602, AL031133, AF033356, AL031622, AC004025, AC005057, AF043945, AC008928, AC005625, AL031846, AC003070, AC004531, AF002223, Z82194, AP000513, Z86090, Z85996, AC007055, AB023049, AC004843, AC006084, Z83826, AL031054, AL049694, AC004881, AC005763, AL022326, AC004894, AP000692, AC005332, AC000052, U91322, AF190465, AC004842, AF088219, AC006312, AC003685, AL050350, AC005034, AL109628, AL033504, AL035661, AL079295, AC002470, Z68756, AC007051, AC005786, AL031121, AC005535, AC006211, AC005225, AC003684, AC006430, AC004938, and AC005209.
					AA174128.
HNHEL72	7669	760706	1 - 321	15 - 335	AA174128.
HNHEL34	7670	706636	1 - 558	15 - 572	AA410476, R05546, R24833, AW402115, AA356328, AA279222, and AC006011.

HNHEI27	7671	506284	1 - 461	15 - 475			
HNHEK69	7672	757649	1 - 522	15 - 536			H10749, and Z99127.
HNHEJ78	7673	800165	1 - 303	15 - 317			
HNHEI20	7674	669763	1 - 458	15 - 472			H06131.
HNHEI90	7675	888553	1 - 305	15 - 319			AI672925, AA639776, AL033376, Z93023, AL049576, AC006581, AC003101, AC005015, AC002302, Z97054, AL035419, AC002331, AC005089, AC012384, AC002430, AC007384, AC005094, and AF069291.
HNHEI37	7676	419752	1 - 286	15 - 300			AA262778.
HNHEH28	7677	973296	1 - 460	15 - 474			H55523, and AL022329.
HNHEG71	7678	760464	1 - 194	15 - 208			AA654661, AI345366, AI310873, AA167792, F00107, AL041894, AI926728, AL118991, AI253382, AA551552, AA504694, AI085242, AA584438, AA833896, AA833875, AA376760, AA579205, AA581170, H72530, AI908575, AW275498, T59724, AA586661, AA630145, M77893, AA224238, AI915205, AA594072, AA351003, AW328000, AA559329, AL050312, AC003037, AL121915, U52111, Z69720, AL049569, AF030453, AC007999, AL031283, AL035587, AL035398, AL031281, AC005067, AL034420, AC001231, AC005512, AL133245, Z97181, AC002316, AC002352, AC005520, AC005730, AC006571, AC004821, Z99716, AC004975, L47234, Z95116, AL022329, AP000349, AL021579, AC002300, AC003693, Z82206, AC004622, AL023879, AC004000, AL035685, AP000505, AC005940, AC007546, Z98048, AP000065, AL049766, AC005859, AC007774, AC007666, Y14768, AP000250, AC006285, AL079342, AJ006345, AC005071, AP000350, AC005225, L78833, AC005821, AL034429, AL049776, AC002404, AL121655, AC005288, AC007406, AP000261, AC004051, AF001552, AL078634, AF196969, AP000558, AC004659, AC005722, AC005088, AC005095, M89651, AC007686, AC002039, AC007845, AL035422, AC007541, AC016025, Z93241, AL022316, AL049646, AC006023, AC005695, Z94160, AL021707, Y10196, AC005516, AC004967, AP000240, AP000035, AP000100, Z84466, Z97630, AC004263, AC002398, AC007225, AF088219, AP000127, AP000205, AC007227, AC005183, AL023284, AL031594, AC005578, AL024498, AC009516, AP000030, AP000211, AP000133, AP000245, U85195, AC005632, AC005197, AL133448, AL008718, AC005971, AC006480, AC006449, AC004686, AC004129, AP000096, AP000555, Z98200, AC005952, AL049830, AB020866, AL049759, AL031255, AC006241, AE000658, AC012627, AL031846, AC005786, AC004849, Z97989, AL133353, AC004491, AL133382, AC007664, AL109759, AP000512, AC003046, AC004765, AC002525, AL022576, AC006328, AL031681, AJ006996, AC002430, AC004675, AC004386, AC006430, AL031733, AL133371, AC003042, AC005190, AC008040, AC005189, AL031295, AF196779, AB023048, AL109798, AL021392, AC007011, AF031078, L78810, AC004257, AJ010598, AC002378, AC004458, AC007172, AC009946, AL121653, AL049873, AC007384, AC000029, AL033521, AL122021, AC005081, AC007050, AC007055, AC003103, AC006530, AC004131, AC002996, AC005180, AC007390, AL022165, AC005060, Z84477, AC004878, AC005328,

HNHEF53 HNHEF08	7679	576417			AC002504, AC005921, Z69705, AC006026, AP001056, AC005358, and AL024507. AL121871.
	7680	958854	1 - 350 1 - 494	15 - 364 15 - 508	AA809125, AI732151, AI962030, AI078409, AI754567, AI223968, AI754105, AI733856, AA769130, AA536040, AA630854, AI653776, AA579130, AW082104, AA947369, AA410788, AA225406, AI751180, AI792464, AI186438, AA176978, F35374, AA772906, AA515939, AI635028, AW272294, AI826761, AA492495, AI017251, AA126635, AI874201, AI801563, AA634991, AI249688, AA714288, AA297666, AL038842, AA704393, T57767, AI499954, AI923052, AI038304, AI866487, AA579152, AA714110, AA832444, AI820963, AA228778, AW419389, AI446500, AW131356, AI471572, AA251356, AI569100, AL041375, AI284045, AA584493, AA702605, AI355007, T09219, AA713705, AA541532, AA527209, AA011037, AW192599, H23467, AW275953, AA563770, R81017, AW277174, AL079734, AA487226, AW237905, AA904211, AA525807, AI056177, AI923451, AA130647, AW157005, AA598927, AA557911, AA765925, AW270768, AA572813, AI053784, AI343169, AA228824, AA665021, AI452836, AI291037, AI923458, AW275432, AI244157, AW276935, AI076236, AL045476, AI004591, AW271904, AW151247, AI446452, AA644090, AI053977, F03525, AI870453, AA456924, AI689019, AA197218, AI365625, AA746911, AA601278, AI150670, AI619738, AW243808, AA313133, AW023111, AI038606, AA176604, AW301809, AI683514, AA133013, AW088665, AW265006, AL135377, AW27624, AA492584, AC005412, AJ236701, AL031283, Z98946, AC006430, AC005280, AC005531, AC005500, AC000353, AC005808, AC002302, AC006080, AL022165, AC005180, Z97180, AC006511, AC009509, AC005089, AI009183, AC002563, AC004805, AC004033, AL024498, AC006271, AC004067, AB015355, AL117339, AC004000, AL139054, U17576, AC005971, AC005822, AL022320, AL022721, AC005229, AL049776, AC006112, AC006111, AL031053, AC007371, AL049829, AC005072, U95739, AC006011, AC005406, AC006512, AB023060, AL050307, AL133246, AL049779, AL035089, AC005086, AC006211, AC012384, AP000432, AL031681, AL136168, AC005519, AF134726, AL031985, AC004687, AC005841, Z98941, AL031287, AC006571, AC006116, AC005324, AD000671, AC007308, AC000159, AC005736, AL035086, AC004050, Z83845, AL008718, AL133353, AP000510, AC004859, AL035420, AC005231, AC005399, AC003101, AC007458, AL035400, AC004685, AC002301, AL031311, AC004858, AL035683, AL080243, AC005722, AC005800, AC006441, AL035659, J03071, Z93244, AP000356, AC004605, AL133216, AL121769, AC005821, AC004087, AL022336, U91318, AL117258, Z85996, AP001053, AL031055, Z82244, AC005922, AC005696, AC002470, AC002477, AC005913, AC004890, AL024509, AC003041, Z99716, AC002395, AC006930, AC006142, AL031643, AC004884, AC005409, AC004049, AC005919, AF047825, AP000065, AP000123, AP000055, AP000170, AC006312, AF196779, AC010197, AC005899, AL034351, AC006537, AL049712, AC005015, AC003692, AC005993, AL022345, AC004453, AL049775, AF165926, AL033376, AC006449, AP000502, AC005562, AC010205, AL035413, AP000044, AP000112, AC004811,

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HNHEE03	7681	924619	1 - 472	15 - 486	AA464805, AW196893, AI808181, AW131666, AA130204, AC007386, and AB011154.
HNHED88	7682	576529	1 - 486	15 - 500	
HNHED18	7683	666594	1 - 665	15 - 679	
HNHEDZ25	7684	973295	1 - 639	15 - 653	R94571, AI247753, and AA678053.
HNHEDY14	7685	542062	1 - 706	15 - 720	
HNHDX57	7686	734933	1 - 458	15 - 472	AA441960, AA372392, AI358948, AI160732, and AL022165.
HNHDX30	7687	692875	1 - 441	15 - 455	W32067, and AF136745.
HNHDXW94	7688	883870	1 - 556	15 - 570	W01704.
					AI345256, AI826857, AI308529, AA046906, AA157876, AW265468, AA017583, N99245, AI520984, AW410844, AA527633, AA047057, AA019793, AI571094, AA132929, AI003068, AW021674, AL121039, AI702049, AW162314, AI819419, AW157128, AI872229, AW029626, AA313025, AA828840, H62123, AI049999, AI254267, AI038029, AI791720, AI791408, AA579082, AI888050, R92703, AW162762, AA425283, AI570067, AA618531, AA635433, AW162332, AA633068, AA554289, AI572680, AW274180, AA557945, AI457152, AL039117, AI318548, AI828721, AI754926, H47461, AI521019, AW192930, AI251024, AL119909, AI815210, AW023390, AA610644, AL138262, AI744963, AI445699, AI064968, AW028376, C75332, AA829199, AI344906, AA367920, AI744259, AI884404, AA112864, AA525818, AA664963, AA779599, AI907521, AI253347, AA021061, AA419014, AA652675, AA493245, AI571894, AI000314, AI753131, AA604601, AI885896, AA636077, AI860648, AI805556, AI028148, AI805373, AA494313, AI744890, AW085626, AA632355, AA601336, AI734193, AW338633, AA748071, AA455202, AA847341, AI825901, AW341955, AW084152, H86399, AW238137, AI434103, AA826109, AA629668, AI567676, AI281622, T10292, AA084148, N49298, AI446618, AI745666, F30357, AI288350, W69639, AI734158, AA167656, AA935827, AA657392, AI573198, AA728911, AL043095, AI640905, AI538404, AI751698, AA524604, N57782, N95217, AA846014, AI744766, AW337483, AA829669, AW022796, AA661583, AI300608, AA657808, AI459879, AA523718, AI619933, AC005768, AC005015, AC004876,

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HNHDW16	7689	422903	1 - 347	15 - 361	AA458568.
HNHDV95	7690	559341	1 - 743	15 - 757	
HNHDV93	7691	792467	1 - 465	15 - 479	H47358, H93774, H47450, H93887, AA341061, AA314420, AA313108, AW300902, AA314241, N55700, AA225897, AF147425, AF161523, and AF151868.
HNHDV16	7692	863116	1 - 592	15 - 606	
HNHDT83	7693	974277	1 - 425	15 - 439	



HNHDT33	7694	576483	1 - 154	15 - 168	
HNHDT32	7695	573332	1 - 110	15 - 124	
HNHDT19	7696	573355	1 - 145	15 - 159	
HNHDT12	7697	576464	1 - 132	15 - 146	
HNHDT05	7698	932223	1 - 431	15 - 445	T19850, AA456956, and T19851.
HNHDM15	7699	660509	1 - 584	15 - 598	W58300, W58191, AF088040, and AL024498.
HNHDM40	7700	574312	1 - 309	15 - 323	
HNHDM03	7701	924895	1 - 320	15 - 334	
HNHDM07	7702	953883	1 - 383	15 - 397	T49747, AA077952, AI018726, AA774119, AA805901, N99715, AI570261, AA340003, AI354369, AI064952, AW193432, AI376197, AI567941, AI459866, AA843450, AA229785, AI017733, AI914706, AI890923, AW029038, Z22626, AA468289, AI732682, AA218645, AL046409, T12272, N25927, AW304584, AL138421, AI804544, AL079935, F28576, AI569086, AA973575, AW438539, AI038279, AW337985, AI079910, AW130799, AI445436, AI866807, AI890052, AI963786, AW103918, AI963263, AL046746, AL079645, AL042856, AA394078, AI038785, AI003743, AI564589, AL120483, AI761471, AA569284, AA344959, AL041368, AI049722, AA535661, AA827383, AW117936, AW276827, C06327, AI289067, AW088202, AI433284, AA977743, AA515051, AW440836, AI610159, AA339487, AI431303, AI223626, AA664535, AA443390, AI567674, AW104748, AL118567, AI474713, AI951889, AI951928, AA384502, AW264969, AI246061, H92005, AA633068, AI887483, F24792, AA664248, AI003172, AA635417, AW074398, AI054090, AI963720, W60516, AA192740, AA178953, AI251241, AI249853, AI205126, AL039309, AI284543, AA470581, AI254770, AA551509, AI802526, AI251944, AA584489, AI251034, AI251203, AI251284, AI469172, AI814735, AI250552, AI547286, AA828662, AA460880, C05755, AI421213, F31204, AW131034, F19258, AA515128, H37821, AI053465, AI133164, AW339568, AI653783, AW192199, AC004923, AF140763, AL024497, AC006296, AC007911, AL033381, AC005184, AL031733, Z77894, AL049760, AP000563, AP000133, AP000211, AB017602, AC006270, AL022323, AC006966, Z93023, AC005596, AC005370, AP000513, AB023049, AC005220, AB020859, Z99571, Z85999, AL031662, Z84478, AC000378, AC010197, AC007938, AC000159, AC002451, AC006064, AC004462, AL021453, AC005040, AC006261, AC006132, AC005661, AC006205, AC018633, AC005062, Z83827, AL033504, AC004844, AC004821, AL035089, AC005771, AL132777, AC004186, AC004189, AL031286, AC006999, AL021878, AC004848, AC004859, AC006312, AC002985, AC005251, AC005249, AL136297, AC005409, AC000353, AC007731, AC004506, AC006263, AC005247, AC007970, AC005500, AC000026, AL117330, AP000093, AC003957, AP000237, AF107258, AC002350, AC004885, Z85996, AL031054, AC005342, AC002369, AC002382, AC006115, AC009223, AC006057, AC002059, AF169121, U52112, AC004493, U77080, U77078, AL031721, AC004230, AC004000, AC008115, AC005341, AC005899, Z81370, AC010077, AF003627, AC004814, AP000193, AL034451, AP000050, AC003964, AP000311,

HNHDD52	7703	520297	1 - 325	15 - 339	<p>AC004884, AL049589, Z93942, AP000117, AC006518, Z97195, AF020503, U91321, AL022329, AJ011930, Z97030, AP000253, AC005003, AC005221, AP000213, AP000135, AC004825, AL031587, AL031311, AP000031, Z97198, AC002523, U77079, U77081, AF060568, AC004750, U71218, AC005568, AC005551, AL121934, AC005903, AC003030, AC005838, U69730, AC007536, AC003088, AC006130, AL031675, AC005187, AC011422, AC006384, AF064863, AL031224, AC005589, AL031904, AC004103, AC002349, AC007436, Z83844, AC006972, AC005772, AL049775, AL132718, AC009509, AL121652, AC004507, Z83856, AC007793, AC000359, AC005225, AC005781, AC005694, AC000379, AC003688, AP000517, AL035252, AC004955, AC005164, AL021707, AC005527, AC002312, AC022517, AB023054, AC007687, AJ006996, AC005529, AL031770, S75201, AC003983, AC004651, AC004760, AP000456, AC005365, AC005841, AC003982, AL080317, AL121580, Z97053, AC004990, AC007392, AL109865, AF152365, U52111, AL031431, L77570, AP000305, AP000954, AC005786, AC000041, AP000047, Z84467, AL023799, AP000115, AP000695, AC006352, Z83846, AL022723, AC006011, AC005520, AC002395, AC007559, AL023807, AL031681, AF001550, AC007363, AF001549, AC005412, M20902, AF050154, AL109852, AL096769, AC008165, AF031078, AC007242, AF030876, AL109627, Z83840, AL035045, AC007283, and AL133245.</p> <p>AJ933478, AJ933486, AJ923052, AJ804546, AA559166, AL037777, AJ857261, AA244415, AJ252726, AA321148, AA581342, AA524846, AJ246796, AW013952, AW193432, AJ050007, AW069227, AA161459, AA678970, AJ383965, AJ185122, AW161879, AJ634187, AJ191343, AJ457313, AW243706, AJ003797, AA936548, AA316535, AJ355281, AA604607, AW078495, AA304857, AJ282661, AJ289067, AL045107, AJ026710, AA364567, AA342958, T60029, H94871, AJ828669, AA854782, F31746, AJ018726, AJ431303, AJ473090, AL079869, AA985038, AJ926089, AJ249688, AA828851, AJ038304, AJ752369, AJ754567, AJ569100, AW192599, AJ754105, AW131356, AJ755214, AJ613261, AJ118911, AL039761, AJ080307, AA776922, AW151201, W16925, AJ799569, AA078084, AA847216, R76463, AJ469624, AJ924855, AA654998, AW243960, AA804732, AJ633479, AJ828710, AA394271, C75026, AA114053, AA847821, AJ471534, AJ683577, AJ380617, R44592, AA226346, AL041019, AJ005388, AL041018, AA724230, AJ471729, AL047643, AW276827, W03190, AW102944, AA179165, AJ879000, AJ689198, T62975, AW074207, AJ282832, AA558697, AA528634, AJ370270, AL042547, AA374705, AW272389, AJ859744, W61253, AA365144, AJ926366, H64777, AJ471481, AA577719, AJ799683, F18403, AA747620, AJ668566, AA515751, AJ339302, AW008231, AJ801695, AA653057, AJ905408, W94226, AJ287964, AW192297, N99715, AW151637, AW151645, AW151646, AW151870, AW008217, AJ216978, AW363120, W92961, AA843450, AJ139968, AJ061292, AA491814, AJ003172, AJ061134, AW274182, AJ572581, AA502572, AW363118, AJ499134, AJ339182, AW340922, AJ051551, AW103415, AL041706, AJ241372, F34465, AA279517, AA573002, R76765, AA159006, AA676621, AW316542, AJ911901, AJ754195, AW328174, W60516, AL046409, AW020340, AW152205, AA133986,</p>
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				15 - 221	U87223, and L77577.
HNHDC29	7704	904546	1 - 207	15 - 416	N46632.
HNHDB69	7705	757760	1 - 402		
HNHCZ84	7706	782897	1 - 673	15 - 687	AW438539, AA601202, F12561, AI963221, AA568623, F08248, W02565, H07953, R61498, AA584733, AA829036, AA588001, AW337237, AI133573, AI431434, AA644090, AL138182, AW022655, AI690497, AA728873, AI536857, AI889566, AC005274, AP001069, AC007058, AL132642, AJ251973, AC005697, AC004854, AC004832, AP000330, AP000690, Z98304, ..

HNHCY96	7707	796547	1 - 737	15 - 751	AL031311, U91321, AC006479, AC012083, AC007008, AC002303, AC005484, AC005534, AB023053, AC004191, AP000516, AL109623, AC004876, AC007878, AL023807, AL096767, AP000343, AC000052, AC005261, AC006417, AL034350, Z93244, AP000967, AC005212, AC008014, AP001037, AC007376, AC007016, AF200465, AC007162, AC005067, AL035413, AC006236, AL031846, Z75888, Z75887, AC006207, AC002039, AC007666, AC005138, AC005279, AC004019, AP000036, AL009178, AL031283, AL035696, U73023, Z82176, AL133399, AC002559, AL035407, AC005215, AF196970, AC004386, AL022238, AC005740, AC004167, AC005231, AC004686, AC007276, AP000171, AL031577, AL049776, AL023096, AF038458, AL035414, U95740, AC005548, AB025321, AL031286, AC009510, AL096791, AC005886, AC007129, AL109758, M17283, AL049643, Z82201, AL022320, AC005785, Z83840, AC007056, AC002045, U82668, AL049634, AL078587, AC005225, AC006450, and AC005250.
HNHCY07	7708	933878	1 - 685	15 - 699	AI091257, AC002430, and AC007384.
HNHCY06	7709	936061	1 - 261	15 - 275	AI341576.
HNHCY08	7710	959944	1 - 357	15 - 371	T89316.
HNHCY09	7711	796745	1 - 254	15 - 268	AA780572, and N22524.
HNHCY09	7712	754189	1 - 350	15 - 364	AA242903, and AW167557.
HNHCY09	7713	705641	1 - 281	15 - 295	AA191568, and AC002111.
HNHCY09	7714	757751	1 - 354	15 - 368	H58980, and AI902634.
HNHCY11	7715	964952	1 - 198	15 - 212	
HNHCY12	7716	861673	1 - 586	15 - 600	
HNHCY43	7717	574074	1 - 203	15 - 217	AF112462, and AR035954.
HNHCY32	7718	574080	1 - 148	15 - 162	
HNHCY33	7719	702679	1 - 641	15 - 655	H94849, N71428, R98526, H58466, N99381, and R98479.
HNHCA27	7720	668255	1 - 451	15 - 465	AA577825, AA713821, AA486097, AA583392, AA603182, AA179985, AA584534, AA167544, AA451922, AA773127, AA582052, AA489989, AA464930, AA578664, AA577765, AA167492, AA577803, AA577840, AA504875, AA577875, AA126847, AA581666, AA594706, AA601406, AA169344, AA613193, AA487519, AA662979, AA775210, AA169233, AA490015, AA457219, AA983272, AA834194, AA490019, AA601418, AA167538, AA169557, AA584834, AA206780, AA188953, AA584435, AA169228, AA668372, AA581901, AA780751, AA613153, AA601412, AA490246, AA772877, AA601625, AA121767, AA180281, AA668327, AA722310, AA563828, AA668699, AA456926, AA680277, AA601464, AA121840, AA169346, AA663091, AA594753, AA668151, AA594147, AA490054, AA456941, AA593549, AA112316, AA456979, AA219034, AA584907, AL460363, AA714486, AA490110, AA775329, AA564831, AA663367, N25053, AA584502, AA679143, AA983440, AA720805, AA577773, AA456943, AA434080, AL047233, AA834071, AA581910, AA736954, AA458783, AA584459, AA112323, AA593542, AA490032,

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HNHBZ39	7721	860113	1 - 272	15 - 286	AL049591.
HNHBX96	7722	796539	1 - 368	15 - 382	T89446, AW298359, and AL081000.
HNHBW54	7723	583752	1 - 408	15 - 422	AC004531, and AC006007.
HNHBU02	7724	920662	1 - 268	15 - 282	AA490179, AA586883, and AC007263.
HNHBO78	7725	574093	1 - 291	15 - 305	AA808994, AL044322, AF146191, AL122020, AC004828, and AC005067.
HNHBK57	7726	490789	1 - 494	15 - 508	AL205181, AA229785, AT796594, T07213, AW105737, AW193432, AA578967, AW270768, AL446205, AA745582, AL119259, AA347927, AL281474, AA605266, AA828867, H64777, AW008074, AL865776, AA347930, AA206475, AL291037, F31867, AW440976, AW157005, AW236342, AW275719, AW277174, AW341903, AL028510, AA664248, F19012, AA569706, F23327, AW383542, AA747375, AL984593, AA992126, AL625244, AA653139, AA743811, AL148245, AA657835, AL803809, T48723, AL624528, F00533, AL289067, AL431303, AA888777, AL688446, R83838, AL119838, T06828, H95769, AA779783, AL189932, AL613280, AA728894, AW250970, AW383586, AL753365, AW383440, AW383608, AW383628, AW383455, AW383629, AL040313, AL832782, H86579, AL291124, AA654968, AL284595, AA557879, AA715850, AL192631, AL291268, AL524540, AL610607, AL537030, H57846, AA779075, AA608683, AW380074, AA828047, AA346454, AL890688, AL120483, AA936859, AL986251, AA728861, AL246796, AL061313, T57604, N29941, AW383605, AL654529, AA657416, T05101, AA533408, AW338086, AA578695, AW383624, H79308, AL888441, F23272, AL874201, AW383606, AA865262, AA525190, AA653221, AL688928, AL040948, F18974, AL431232, AL910609, H54443, AL804604, AL078581, AC007617, AC005632, AC005539, AC006480, AL031256, AB018280, AC004531, AC004797, AL031291, AC006208, AL020995, L44140, AC002476, AC007486, AL049760, AB017652, AC000041, AC002122, AC000353, AL031295, AC008044, AL035417, AL031594, AL031584, AB020859, AC005043, U85195, AC006285, AE000658, AC004167, AL096791, AC005207, AC005620, AC005062, AP000049, AP000116,

HNHB148	7727	860125	1 - 535	15 - 549	<p>AL024507, AP000269, AC007845, AC003983, AP000311, AF139813, AC016025, AP000032, AP000103, AC006162, AF198095, AL021453, AF128525, AL022322, AL117256, AC000066, AJ010770, AF111168, AD000092, AC007283, AC004703, AC005839, AC007450, AC003007, AC007308, AC007639, AC002470, AC004856, AC006511, AL023803, U80017, AB011133, AL023882, AC007192, AC002990, AL022400, AC005393, AC002126, AL109628, AL049569, D87675, AC004622, AL034553, AC005380, AC005002, AC008039, AC000025, AL031589, AF015147, Z48051, AC004878, AL035427, AC005740, AC005037, AC002549, AL133245, U66531, AP000252, Z97876, AC005962, AC000134, AC004257, AL080243, AC004996, AC007406, AC002059, AC005520, AC004228, AP000354, AC004987, Z97206, X54175, U91319, AL050318, AC003009, AC009028, AC004821, AC006571, Y11107, AC005175, AC006167, AC005250, AL031388, AB023050, AP000966, AL031054, AP000511, AC006040, AC004596, AF003626, U95742, AC006942, AC005784, AC004109, AC005280, AC003029, AL078602, AF001549, AC004841, AC007216, AC002120, AL033543, AL033381, U57009, AC005808, AC005081, AC007327, AC006117, AC000075, AC000084, AC002491, AC004209, AC006139, AC005663, AL034399, AL022313, AC005664, AC005150, AC005598, AC006547, AL035400, AC003104, AC005180, AC006449, AC007934, Z82181, AJ003147, AP000253, I51997, AL023580, AL021578, AL034417, AC005971, AC004537, U95090, AC005369, AC005923, AL121591, AL031671, AF196779, AC005610, AC005003, AC006473, AC007014, AC005391, AL031290, AP000031, AP000090, AC005300, Z30993, AC003959, AL031255, AC002544, Z97054, AL122023, AC005367, AC003089, AC005746, AC008173, AC004779, Z97630, Z49816, AC004466, U18391, AL132985, Z92542, AL080245, AL035397, Z84478, AC002364, AC007103, AC007676, AC004383, AL031729, AF017104, AP000967, AF200465, Z83826, AC010382, AC005249, AC005237, AC004895, AL031286, AL049757, AC005725, D83253, AC002524, AL049198, AF205588, AC007971, AL035448, AC002094, AC004805, AL031123, AC006948, AC004954, AC004141, AL031905, AL031767, AC007682, AL031666, AC002485, AL022163, AC004453, AP000213, AC003102, AC016026, U18398, U57006, AP000135, U18390, and AC009516.</p> <p>AL041374, AA585101, A1525556, A1525431, A1540967, C16300, A1541365, A1557807, AA585439, Z28355, A1541307, A1541017, A1541523, A1541535, Z30131, A1546999, A1557799, A1541514, A1546828, A1525306, A1547039, A1535639, AA585476, A1541510, A1546891, A1546945, A1526194, A1525316, T11028, A1546855, AA585453, D61254, A1536138, A1557238, A1526140, R29445, A1557731, A1541013, A1525328, R28735, A1541534, A1541390, A1541345, A1556967, A1546875, A1525320, T23957, A1557262, AL037436, A1541508, A1557787, AA585356, T41289, AL037435, D57491, A1541509, A1525653, C16305, AA585434, AJ239433, A1540882, R29177, A1526187, A1557796, A1526073, AL040463, C1039915, AL043612, AL041197, AL040155, AL041346, AL041096, AL047012, AL041358, AL041277, AL041163, AL041098, AL040621, AL043538, AL041324, AL040464, AL044162, AL041086, AL043496,</p>
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HNHB102	7728	91837	1 - 803	15 - 817	
HNHBG42	7729	714044	1 - 360	15 - 374	N35304, AI377191, AA256944, AI803128, and AI332632.
HNHBF78	7730	773747	1 - 583	15 - 597	AA176868.
HNHBF47	7731	949027	1 - 911	15 - 925	AL042580, AB028499, and D87469.
HNHBE75	7732	766526	1 - 480	15 - 494	R42061, and AC006561.
HNHBD73	7733	764293	1 - 561	15 - 575	AA598889, AA877462, AA729004, AI636422, AA460880, AP000692, AC005837, AL080243, AC006263, AC005328, AC005933, AL022476, AL031685, AC004922, AL008718, AC004974, AC004967, AC004752, AC006388, AC002350, AC006443, Z98048, U82696, AC006538, AL034420, AL050307, AC005318, AL031983, AC004882, AC005399, AC005480, AC005519, AC005911, AC002418, Z93023, AL033504, AC006581, AF196779, AL122020, AL133163, Z95152, AL031657, AC005726, Z98044, AC007308, AC006261, AL050320, Z80771, AC004534, AC007228, Z97630, AC006315, AC007934, AC006137, AP000260, AL049562, AC005372, AC005670, AL035684, AC007537, AC000353, AC006312, AP000099, AC007917, AC004663, AC005288, Z82198, AL031284, AL031311, AC005565, AC005531, AC004812, AF067844, AC005821, AC005037, AC004797, Z97352, AC006162, AC005375, AL020995, and AC007387.
HNHBC77	7734	772452	1 - 261	15 - 275	N92834, W25061, and AC005074.
HNHAP69	7735	574295	1 - 256	15 - 270	
HNHAP55	7736	574386	1 - 328	15 - 342	
HNHAP32	7737	574393	1 - 267	15 - 281	AC004849.
HNHAP08	7738	959961	1 - 225	15 - 239	
HNHAM81	7739	574402	1 - 103	15 - 117	
HNHAM80	7740	574404	1 - 146	15 - 160	AC006443.
HNHAM33	7741	571334	1 - 107	15 - 121	AI732977, AA907815, AA911504, and AB023421.
HNHAK41	7742	890594	1 - 450	15 - 464	
HNHAI41	7743	712605	1 - 221	15 - 235	AA017301, AA054227, and R85894.
HNHAI07	7744	954088	1 - 156	15 - 170	AI361882.
HNHAF61	7745	742116	1 - 673	15 - 687	W32160, H12099, F11591, R24785, F07709, AF152473, AF152303, and AC004776.
HNHAE19	7746	527975	1 - 551	15 - 565	AA732587, AA747437, AA207014, AA047644, AW015259, AA283881, and AA262271.

HNHAB36	7747	596822	1 - 954	15 - 968	<p>           AI733856, AW190505, AA702605, AW270258, AA533176, T05834, R91911, AA550850,            AW327624, AA659535, AA601278, AA233465, AA515728, AW117740, AI732120, AA857296,            AA618263, AW300749, AI493264, AI628224, AA085587, AA525153, AI367523, AI927094,            AA668291, F04697, AA579130, H71678, AA324186, AI636627, AI678785, AI809818, AI829331,            AA812058, AI570943, AA454177, AI888468, AA508809, AI040051, AA79783, AA491284,            AA600202, AA602906, AI457597, AI630283, AW192330, AI144094, AA262752, T74524,            AA862312, H07953, AW004884, AI053981, AA573068, AW157492, AA350596, AA229912,            AB003151, AC004408, AC005529, AF134726, AL035086, AC005253, AP000689, AC005527,            L44140, AC005184, AC005071, AL031276, AC005005, AC007221, AC005903, AL049874,            AC012627, AC006111, AC002072, AC004019, AC004841, Z99716, AC002350, AC009516,            AL121658, AL049543, AL031432, U95742, AP000013, AP000155, AL023575, AL031005,            AL031297, AC005694, AP000025, AC003029, AL034420, AC005482, AC000353, AC002395,            AC004858, AC007934, AL009181, AL133448, AF001552, AC005940, AL008582, AP000049,            AC005519, AC004595, AC000052, AC006064, AC004765, AL133163, AC007216, AC005399,            AP000311, AP000359, AC005907, AC004967, AC006285, AL121603, AC007226, AC002563,            AC005004, AC005899, AC008115, AL022069, AP000030, AC005363, AL035413, AC005146,            AC006079, Z84469, AC004745, AC002331, AC005057, AC004686, AL133238, AC006126,            AL034343, AC006312, AC006960, U62293, AC007227, AP000505, AL109628, AP000251,            AC002991, AL050307, AF129756, AC003013, AL034548, AC002316, AF196969, AC005619,            AL049872, AC003109, AL035398, AC007845, AC002527, AC005520, AL049829, AL033392,            AC002301, AC005288, AC005089, AC007993, AL031447, AC005081, AC002045, AC016026,            AC002310, AL034549, AL080243, AC005544, AL121652, AC002126, AC006120, AC020663,            AC005914, AP000512, AC007263, AF019413, AC003101, AL133445, D84394, AC004878,            Z98200, AC007421, AP000558, AL049694, AL035420, AC005971, AL008719, AC004645,            AC000026, AC004905, AL021546, AC004854, AL024498, Y14768, Z86090, AC006480,            AC006333, AL035415, U07563, U63721, AL022320, AC004859, AC007371, AC007200,            AL049776, U85195, AC002477, Z99774, AL049761, AC007283, AC006511, AL109984,            AC002544, AP000065, Z98749, AC007919, AC005781, AF117829, Z85986, AC008372,            AL031722, U91321, AE000658, AL109801, Z94802, AC005837, AL009179, AC005015,            AC003688, AC003950, AC005779, AC006479, Z83843, AC007999, AC004517, Z92542,            AC006211, AL096791, AC005104, AL049697, AC007676, AL109839, AL008725, AC005411,            AC004890, AF207550, AC005800, AC002059, AC006952, AP000502, U47924, AC005578,            AC006001, AL031587, AL022313, Z94056, AC007686, AC002470, AP000134, AP000212,            AL035461, AL109799, AL031427, AC007649, AL031281, AL132796, AC005086, AL022165,            AL133371, Z93017, AC007406, AC002425, AC006275, AC004996, AL031055, Z68224,            AP000023, Z83826, Z84487, AC004750, AC005874, AF134471, AC005513, AC005189,            AL050341, AP000964, AC005539, AL035071, AC004999, AL022336, AL021807, AP000193,         </p>
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HNGPR43	7749	860142	1 - 291	15 - 305	H65099, and AA601342.
HNGPP74	7750	974046	1 - 724	15 - 738	
HNGPN54	7751	947104	1 - 466	15 - 480	
HNGPM65	7752	972821	1 - 292	15 - 306	AC007429.
HNGPL75	7753	950134	1 - 1119	15 - 1133	AA773970, AA768044, and AC005332.
HNGPL05	7754	974049	1 - 528	15 - 542	AC004541.
HNGPI87	7755	860162	1 - 491	15 - 505	AA169191.
HNGPH83	7756	974045	1 - 217	15 - 231	
HNGOZ40	7757	969158	1 - 607	15 - 621	AA132013, AW014651, AI675608, AI248426, AW071964, AI480054, AW002112, AI248788, R44057, AI890868, W88679, AI566382, AI014337, AA768893, AA404555, AA992522, AF155098, and AF135016.
HNGOY68	7758	860169	1 - 676	15 - 690	AI073971, and AW058089.
HNGOY32	7759	954991	1 - 739	15 - 753	AA601697.
HNGOP63	7760	973415	1 - 760	15 - 774	AC005343.
HNGOP40	7761	860182	1 - 719	15 - 733	AA137024.
HNGOO88	7762	860179	1 - 351	15 - 365	T70563.
HNGON56	7763	974038	1 - 724	15 - 738	
HNGON24	7764	860183	1 - 707	15 - 721	AA573222.
HNGOK04	7765	972752	1 - 598	15 - 612	AL023882.
HNGOF70	7766	860195	1 - 301	15 - 315	AA236911, AA417620, AA824640, AC007216, U95742, AC002045, AC002039, U91326, AF001549, and AC002544.
HNGNY72	7767	860198	1 - 528	15 - 542	AA593483, AA585098, AA585325, AA170832, R29657, T18597, AA585101, R45895, D53161, R28735, R29445, D57491, AA585155, C15406, AA585439, D59751, Z32822, AA585378, Z32887, AI557262, R28892, AI557864, AI541356, C15069, AA585329, AI526140, AI541365, AI525500, AI557740, R28965, D61185, Z28355, D59436, AI526184, R29218, D60844, D60765, D54897, AI526078, AA585476, AI557731, AI525316, AI557763, R28967, R28895, AI541205, AI541535, AI546971, C16315, AI525556, AA283326, AI541383, AI541517, AI547250, AI546875, AI526016, D61254, AI557727, AI557734, AI546999, D53472, AA585356, AI557718, AI557787, C16293, D53447, AI541013, C16294, C15120, D52835, AI547039, D55233, AI525306, D78224, C16300, AI541374, C16292, AI557084, AI541346, AI546945, AI525431, AI526191, AI557807, AI557155, AI547196, C16305, C15762, AI557408, AI557758, AI541523, Z30131, AI557809, R29179, AI525339, AI541034, AI526194, C15737, AI540903, AI546921, AI541307, AI526112, AI546996, AI540967, AA585453, AI546891, D60730, AI547006, AI557602, Z33559, AI540974, C16296, AI547202, AI525320, AI557279, D57186, AA585430, AI557808, R29177, AI541321, AI526024,

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HNGNY16	7768	806017	1 - 628	15 - 642	N53256, and N48058.
HNGNY02	7769	918626	1 - 546	15 - 560	AA593459, and AA601626.
HNGNX66	7770	974035	1 - 655	15 - 669	
HNGNU85	7771	974037	1 - 688	15 - 702	
HNGNS91	7772	973432	1 - 560	15 - 574	
HNGNN81	7773	974124	1 - 511	15 - 525	
HNGNN01	7774	915226	1 - 654	15 - 668	AA776772, AI754955, AI830390, AA491814, AI053672, AW022379, AW168342, AI245679, AA181773, AA634227, AI273185, AI281881, AW088058, AA441788, AA457592, AI284640, W79504, T08638, AI471481, AI334443, AW303196, AW274349, F36273, T05101, AI564185, AW301350, AI358343, AA640772, AI674873, AA132914, AI291268, AI291124, AI273193, AA371533, AI446464, AA177061, AI801591, AI076616, AA284179, AI334435, AW407578, AA338486, AA649642, AI268599, AI707788, AW300625, AA364224, AW406447, C06303, AA581903, AA669251, AI432270, AI624698, AI061227, AI120502, AW419262, AA514737, AA810370, AA831375, H91305, AI888008, AA665021, AI281903, AI143242, AA349366, AI732120, AI859251, AI352078, N25296, AA744031, AI801701, AI287451, AA598586, AI287651, AF150152, AW151896, AA569387, AI817516, AI134367, AI364020, AI046898, T07451, AA368936, AW162489, AI653905, AW270270, AW073470, AA451612, AI471543, AA828856, AI561255, AI640702, H13757, AA482681, AI537030, AI133164, AA827023, AA862173, AA713891, AA528516, AI435544, AI754253, AA578391, F19012, AI299050,

					AA533725, FI0924, N63352, AA502155, AA604897, AI732186, AA652057, AA323749, AI352114, AA610491, AI709365, AW192154, AA838140, AI216799, T06828, T08914, N71930, AA665330, AA661948, AA513293, AA670468, R97934, AW072587, AC004460, AC006328, AC005630, AC005154, AC006312, AL096701, AL031668, AC004890, AC007242, AC002448, Z97630, AL132712, AC004099, AC005488, AC007536, AF077058, Z82205, AF001549, AF190465, AC005233, AC005324, AC007050, AC006014, AP001053, AC005332, AL079303, X75335, AL050318, AC004783, AL031283, AL133448, M19482, X52851, AC002544, AC007488, X74558, AC005544, AC004033, AL035587, AC005037, AC008273, AC006353, AC005091, AP000207, AP000129, AF121781, AC002404, AC002994, AF053356, AC006001, U91326, AP000459, AL008721, AL020993, AF152365, M87919, AL096712, AC005839, AL022721, AC009946, AF129756, AF165926, AP000130, AP000208, AL022332, AP000354, AP000018, AP000247, AC003070, AP000168, AC008282, AL133371, U73169, Z84480, AP000460, AC005175, AC006205, AC004825, AC007229, AC002549, AC007565, AC008055, AC005624, AL133249, AC008079, AC004884, AC000004, AC007040, AC003664, AL049843, AL035413, AF196971, AC007324, AC008372, AC008101, AL031053, AC003043, AL033521, AL031286, AC006039, AC006487, AL021707, AB020866, AC004765, AL050307, AL021878, AL035458, AL009179, AP000502, AC005620, Z99756, AC002090, AC005071, AC003007, AC007159, AC005041, Z83840, Z15025, AC010382, AL078639, AL078477, AL035457, AC006211, AP000350, AD000092, AL049766, AC007051, AC007100, AC006241, AF157623, U47924, AC007919, AC005102, Z86090, AC003112, AL121658, AL031719, AC007682, AC005771, AC006449, AC005940, AL133241, AC005503, AC000372, AC000003, AF161343, AC004992, AC007066, AL049873, AC005696, AC006965, Z84572, AL031650, AL031281, AC007193, AC005632, AC010169, AL022318, AC007842, AP000347, U75931, AC005261, U91327, AC007130, AC004987, AB022785, AL121852, AL023575, AL121694, AC007032, AC000052, AL031846, L47334, AC004217, AL031289, AL022476, AC002457, AF043945, Z85987, AP000696, AC005523, AC005837, AC007371, AC006210, AC000081, AL023283, AP000466, AL031670, Z82244, AL121603, AL121825, AL031311, AC004984, AC006285, AC007671, AC003959, AC004876, AL022322, AC002422, AC004865, AP001068, AC008015, AL023799, AP000044, AP000112, AC002536, AL009031, AC002326, AP000473, AC004019, and AC005768, AA053962, AI283611, AI283583, AI627209, AI144026, AI952755, AI109758, AL022163, AL121653, AC004875, AD000091, AC005969, AC010170, AC004792, AC005412, and AC002564.
HNGNJ46	7775	860212	1 - 475	15 - 489	
HNGNJ78	7776	860216	1 - 366	15 - 380	AA126935, AA807689, T40495, T50099, H65096, R07589, T50151, AI801031, R93174, W90100, AC004259, AP000703, AC004600, AC008124, AC006509, AC004815, AF050154, AC005043, AC005049, AC005274, AC008085, AL109952, AC007193, AC005520, D28126, AC005081, AB015355, AC007899, AC002044, AC005015, AC006126, AP000704, AL034418, AC004551, AC005300, AL050318, AC004973, AC003029, AC007314, AC006026, AF069489, L44140,

					AL031905, AC002347, AL035249, AL049835, AC004841, AC006261, AC006946, AC005386, AC007773, AC005261, L78810, AC004836, AC006111, AL031432, AC007160, AL049760, L40817, AC007201, Z93930, and AC002511.
HNGND75	7777	974968	1 - 672	15 - 686	AC007786.
HNGND01	7778	915294	1 - 762	15 - 776	AI022226, AI129665, AA127628, AI130001, AI301039, AI141043, AL035865, AW270721, AW005796, AA534994, AI478710, AA404247, AI683640, AI935858, AW264511, AA121530, AA668748, AA557266, AW078692, AI955181, AI628202, AI086050, AW090542, AW166084, AI986269, AI983208, AI377124, AI683889, AA541435, AI081338, AA725813, AW070580, AA179522, AA932109, AI620840, AA810479, AW439451, AW068961, AI033877, W49540, AA133498, AW189306, AW088358, AA601021, AW090306, AA872331, AI920839, AI635641, AI214106, W86782, AA551354, AI610664, N51942, AA211133, AA126908, AA535619, AI081495, AI335620, AI884357, AA115738, AI297995, AI911637, W47028, N20983, AI887390, W73516, AA890394, W72695, AI680273, AA620718, AA578586, AI276552, AI190252, AI352166, AI476083, AL035750, AW305374, AW162495, AI469122, AW081889, AI079436, AA774108, AI342284, AI473922, AI973240, AI039051, AA084585, AI826973, AA826611, AA702028, W49770, AA598477, AI049540, AA180213, AI690720, D57533, AI001812, W73499, AI032492, AL047379, AA398664, AI074393, AW069375, AA706382, AI263477, AW243728, AI168559, AI753147, AW305310, AI288970, AI052705, D54869, AW264770, W77810, AI493416, AW268388, AI051099, AA598495, AA514907, AI287981, R66430, AA747253, AW364206, AI933724, AI493365, AI219361, AI360733, AW020272, AA676604, AI609237, AI824623, AW022871, W05044, AW002671, AW087153, AI928872, D53483, AI174366, AA730111, AI187825, AI041829, AA853124, AW173457, AA501361, AW130490, AI273536, AW089817, AI859433, AI818678, AI055827, T63494, T10144, AW132076, AI127320, AI979199, AA622833, AI583649, AI754770, AA809076, AI753765, AI096355, AA703919, AI753332, AI299238, AA602670, AA579625, T67471, AW022545, AI492509, AI057100, AI583931, AL047743, AA533746, AA083367, AA778087, AI190949, AW262610, N63572, AW337252, AI190389, AW339759, AI041973, AI678856, AI140137, AI146987, AI811361, AI927773, N33083, AI890665, AA232549, AA788865, AW273394, AA568739, AI302621, AA770664, AW150725, AW273028, AI243228, AI937304, AI373008, AI423914, AI264872, AI251821, AA039947, AI866531, AI250692, N80040, AI028651, AA738286, AI702397, AI202482, AI783520, AA875881, AI263698, AA598774, AI338061, W32221, AA480150, AI470708, AI628500, AA115683, AI929829, AA070897, AW069880, C75038, AI274672, AA199627, AI084814, AA367443, W73373, AA134177, AI446560, W92997, AI364426, AA910384, AW385410, N34478, W48673, AA084513, AA630578, AA854828, AW197913, AA812131, T16010, AI561055, AI085001, AL049610, D14812, AB025049, AF100616, AF070664, AF131847, AL137697, AF161546, AF100615, AR051470, AR051511, R52817, R62932, H08211, N74682, AA082060, AA232343, AA600929, AA580303, AA662255, AA731060, AA828583, AA206628,

HNGNA49	7779	974907	1 - 606	15 - 620	AA653675, Z21558, AA904436, AA773870, AI583553, and AI610630. AW378532, AA837655, AW360855, AA704393, AA576336, AI810682, F05324, AA527209, W03286, AA468022, AA487775, AI734144, AI254913, AA837035, AW084745, AW084739, AI800168, AA569183, D34614, AL031055, AC004881, AR060138, AF129108, AL022336, AC004253, AP000502, AC004408, AF053356, AC007899, AC005409, AL008718, AL034548, AP001053, AL035397, AC007193, AC005015, AL031053, I09706, AF019413, AC003665, AJ229042, AC006468, AC004084, AC004019, AP001069, AC006252, AC004686, Z94056, AL031133, AC006130, AL021918, Z95114, AL022146, AP000348, AP000347, AC005280, AC004962, AC000052, AC005725, AL133321, AC002049, AP000170, AP000055, AP000123, AL035067, AC002472, AL024507, AL031680, AL135744, AL049540, AC004975, AC002301, AC002395, AC005900, AL049869, AL022318, AL031595, AL035695, AL031311, AC009247, AC007151, AC002543, L35667, AF135187, U73024, AC005612, AL031848, AL022238, AC000070, AC004776, U85195, AE000658, AP000210, AP000132, AL035587, AL034554, AC004072, AJ011930, and AP000466.
HNGMY91	7780	974056	1 - 735	15 - 749	AI246796, AI110760, AW080811, AI380617, AA449669, AA715506, AI567391, AA742818, W45215, AI124798, AA565911, AC006449, AC005695, U47924, AC006026, AC009516, AP000556, AF030453, AL049780, AP000552, AC002425, AC005088, AC005089, AC002470, AC007707, AC005086, AC005071, AL133445, AC003684, AC005274, Z93023, AP000688, AC016830, AL096791, AC007461, AC016027, AL050332, AC005049, AC005225, AC004859, AC005081, AC005015, D87675, AC004815, Z83844, AC004854, AC007216, AF109907, AL049776, U91323, AC004475, AC007666, AC004531, AC004983, AL031587, AC007421, AL009179, AP000350, AL049872, AC002472, AC002477, AL022326, U95742, AC006312, AL049539, AP000502, AC004491, AC007263, Z95115, AC007664, AC004797, Z98884, AF134726, AC005837, AL022336, AC007358, AC004477, U80017, AC004967, AC002375, AC006011, U82828, AC005057, AC007686, AL009181, AP000248, AC005971, AC002544, AC005332, AC005881, AL022320, AP000045, AC007371, AL031282, AC006006, AC007226, AC002316, AP000049, AC006014, AC005067, AL096712, AF001549, AC006571, AL035681, AP000557, AC005037, AP000692, Z99716, AL121658, Z84480, AC004584, AC003109, AC004858, AP000311, AL096701, AP000689, AB023049, AC003982, AD000092, AC006511, AC004106, U62293, AC002546, AC004520, Z93930, AC005237, AL031662, AL078638, Z84469, AC005839, AL035460, AC007637, AC007308, U95739, AL031595, AC006285, AC005261, AC007774, AC005899, AC004821, AB003151, AL021578, AL022316, AC003108, AC006459, AC005599, AL031311, AC006455, AL121652, AL022316, AC005823, AC005535, AC005562, AL109627, AC005884, AP000212, AP000134, AL035450, Z83840, AP000252, AC000353, AC006251, U91326, AP000300, AC004605, Z98304, AF111168, AC005778, AP001053, AC005488, AC005841, Z95114, AC007283, AJ010770, AC004878, AL022322, AC002350, AL133448, AC004148, AL121578, AC002550, AC005519, AF196779, AC005578, AL049869,

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HNGMW65	7781	950173	1 - 405	15 - 419	AA577906, AW406447, AL138265, AA587256, AW406755, AI358229, F25135, AI365988, AI061334, AI963720, AI613280, AA623002, AI446638, AW276827, AA630925, AA482711, AI350211, AL046409, AI619997, AA559290, AW193265, AI610159, AA649642, AA484696, AI311557, AI341664, AI688846, AI431303, AI284640, AA491814, AI344844, AA610491, AA569284, AW193432, AA634227, AL119691, AL120269, F29989, AI049634, AI281881, AL036382, AI345654, AI375710, AA581903, AI090334, AW302013, AI610840, AL048925, AW438643, AA551503, AI298710, AI669453, AA177061, AA719805, AI571512, AA984708, AW439558, AW189303, AI471481, AW270270, AI754658, AL270117, AI434695, AA525190, AI446464, AI053672, AA630030, AI289067, AA350859, AW148792, AI148277, AW303196, AA654771, AW274349, AI744827, AA810318, AI814735, AA569471, AW088846, AI143242, AA493471, AI305547, AI249997, AA394271, AI499938, AW304584, AI633390, AA664535, AI561255, F36273, AW301350, AA826303, AA806796, AW162489, AA747276, AI379719, AI262909, AW276435, AI744995, AI344443, AI801591, AL041368, H88666, AW276817, AI471543, AI085719, AA829223, AI537955, AW082108, AL038705, AW406162, AA568778, AL042420, AI286356, AI368256, AA682912, AA977743, AW408717, AI345681, AI345675, AI279165, AI634384, AA502963, AA641103, AI287651, AI133164, AA491831, AI732120, AW089322, AA572713, AI357551, AW339568, AI888008, AA468022, AA134367, AW338419, AA515905, AA491762, AA364224, AI860020, AW303876, AW238278, AI273968, AI281697, AL037683, T40617, AA644538, AI064864, U62293, AF015148, AF015149, AC005295, AL132712, AL008635, AD000684, AF038458, AD000092, AL031650, AC004019, Z69917, AC005914, AC002072, AC004596, AL023553, AC007564, AL035659, AL031584, AC009247, AC005841, AC004894, AL049631, AL035361, AC005015, AP000356, AC007666, AF196779, AC002395, AP000248, AL021940, AC005829, Z93241, AC006026, AP000354, AC002470, AC007308, AL031286, AL117352, AC005387, AC004263, AC007541, AC004821, AC004895, AC004849, AC008372, AL031255, AC006274, AC003007, AC006274, AC004848, AP000692, AL080243, AC005253, AC005907, AF045555, AC006120, AC005003, AC005410, AC005081, Z82244, AL049759, AL121578, AC007065, AC005876, AL132800, U73479, D87675, AI080242, AC006571, AC007151, AC006511, AC002377, AC006195, AL034423, U95742, AL121934, AL121748, AC002059, AF039907, AC002430, AL031848, AC004857, AL049712, AL109802, AC004534, AC006312, AC005264, AL022323, AL034547, AC008079, AC006128, AL023803,



					AC007216, AL008730, U35114, AC007384, AC012627, L47234, AC005820, AL109980, AC007227, AC005189, AP000142, AB023049, Z93930, AC004622, U66059, AC005821, AL034451, AL035086, Z86062, AF190465, AC010722, AC005231, AL049643, AC006116, AC005412, Z82097, AC005923, Z99571, Z84487, Z95124, AC005940, AC006130, U75285, AC000353, AC005971, AC004690, U63312, AL021578, AC001531, AC002538, AC007191, AL139054, AL022302, AC004884, AC005324, AP000555, AF067844, AL021453, AL078477, AL031734, AL031657, AC005799, AC016026, AC003101, AC007687, AC004099, AC005632, AC005781, AC002128, AC004859, AC007226, AL132641, AC010168, AF055481, AL121658, AC004975, AC002984, AC004593, AF010238, U78027, AC004638, AC004933, AC005899, AL096712, AC005377, AC006271, Z98051, AC003957, AC004799, AC005288, AC018769, AC005900, AL079340, AC002400, AC006241, AC006002, AC006211, AC003982, AC006581, AL049636, AL034420, AC007245, AC020663, AC006344, AC003119, AC004797, AC007324, AC002347, AL035587, AC007792, AC011604, AL024507, AC006480, AC004814, AP000517, AC005257, AL049557, AF123462, AC005783, AC006965, AC005274, Z85987, AC002350, AL133289, AC002451, AC008134, AC004008, AL035496, Z82178, AC009516, AP000512, AC006076, AC004754, AC006208, AC003664, AL031224, AC005089, AL022315, AC002425, AL008718, AC018633, AC007043, AC005154, AC005730, AC005913, AC007358, AC005280, Z97630, AF128525, AC004650, Z83826, AL049647, Z98036, AL031123, AL023807, AC005242, AC006960, AC005399, AC008018, AC007298, AC004547, AL132774, AC004989, AC009509, AC007011, Z97195, and AL035458.
HNGMT40	7782	930430	1 - 601	15 - 615	AI620554, AI453794, and AI040063.
HNGMM11	7783	966099	1 - 456	15 - 470	AA256983, AF057159, AC009247, Z57759, Z56080, Z64954, and Z56081.
HNGML12	7784	934389	1 - 629	15 - 643	AI380529, AW293019, AA812027, N34824, AI384128, and AI919525.
HNGMF02	7785	955660	1 - 1026	15 - 1040	AI668778, AW449078, AI808063, AA652238, AI810731, AI819769, N20962, AA854352, AI868698, AA015950, AI146603, AA577040, AI768021, H20848, AI685171, H92976, R54801, AI424950, R85513, R73898, AI566765, AW055158, R93702, AW271967, AI885110, AA702855, H98871, AI251907, R37618, N58807, AI200592, AA422051, AI640769, AI825895, AI685990, N29373, AI183275, and AF131764.
HNGME04	7786	927020	1 - 612	15 - 626	H53494, AI240767, and AL121998.
HNGMD92	7787	790887	1 - 575	15 - 589	T40288.
HNGMD48	7788	974358	1 - 563	15 - 577	
HNGMC01	7789	915310	1 - 1007	15 - 1021	AI146451, AA022541, and AA022540.
HNGLY12	7790	968919	1 - 479	15 - 493	AI024747.
HNGLY08	7791	948825	1 - 834	15 - 848	D81111, C14227, D51799, C06015, T11417, D80253, D59859, F13647, D80168, D59889, D51423, D80166, D58283, D59619, D80210, D80240, D80366, D80212, D80064, D80195, D80949, D81030, D80188, T03269, D80219, D80391, D80043, D80227, D51079, D57483, D80196, D80269, D80038, D59927, D80193, D80024, D59275, D80022, C14429, D80045, D59610,

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HNGLS90	7792	787446	1 - 604	15 - 618	W93091, AW207524, R01213, AI016019, AI242115, and AW136066.
HNGLS4	7793	972812	1 - 641	15 - 655	
HNGLO21	7794	974067	1 - 773	15 - 787	D80133, C03092, H67854, Z21582, C14298, D59619, D80210, D80240, D80219, D80064, C14014, C15076, D81111, D51423, F13647, D80439, D81030, D59503, D80157, D59502, D80166, D80212, D80949, D80168, D59653, D51053, D50995, D51079, D80188, D59373, D58246, AA305409, D51799, C14389, AI535665, and D59551.
HNGLL07	7795	952236	1 - 597	15 - 611	AA128161.
HNGLK36	7796	974584	1 - 650	15 - 664	
HNGKY10	7797	963459	1 - 150	15 - 164	AI587470.
HNGKS34	7798	974368	1 - 426	15 - 440	AP000219, and AJ011931.
HNGKQ80	7799	860306	1 - 703	15 - 717	AA457656.

HNGKO32	7800	860307	1 - 807	15 - 821	<p> W91887, W01167, AI613280, AI350211, AI341664, AA365347, AA584749, AI282907, AI344844, AW074398, AW193265, AI284640, AI061334, AI688846, AW193432, AI431303, AI471481, AI345654, AW276827, AI963720, AI046409, AW264973, AI879000, AA535661, AI205126, AI610159, AA719805, AI041412, AW338869, F19258, AI041368, AI814735, AA659083, AI015912, AI537185, AI340453, AI379719, AA558697, AI289067, F35659, AA654627, AA515435, F18974, N23649, F36273, AA350859, AI312149, AI719997, AW261871, AA366035, AA551509, AA228329, AI375710, F31204, AA176924, AI914706, AW265197, AI003172, AI536555, AA658235, AW439558, AI565582, AA626747, AI270343, AW439839, AA650244, R93081, AA580662, W60516, AA515128, N71724, AW083402, AA578141, AW438643, AI053672, AA605274, AW419262, AW339568, AI493634, F29989, AI240891, AW172727, AA593060, AI334443, F37286, AA362700, AA244329, AI754658, AA308806, AA338431, AI110770, AA340003, AI276164, AA317170, AI349874, AI557323, AI358229, AI435544, HI16048, AW406755, AA077817, AI365988, AW022046, AI003743, AA310158, AI270117, AI742771, AW339687, AI634384, AI635272, AW264959, AW275674, AA553385, AI287284, AA837755, AI048925, AA318652, F26152, AW083364, AA843450, AA332991, N53150, AI079935, AA826032, AF150152, AI037914, AA021133, F37223, F31799, AI471543, F31796, AI499094, AI859742, AA559290, AW069807, AA451612, Z98473, AW303876, AI830390, AA584458, AI216799, AW269639, AA648110, AI951889, AA507547, AI744188, AI872421, AI565245, AI885167, AI446464, AI138265, AW104748, AA557879, AA299601, AA358897, AI049634, AA292574, AA095511, H64560, AI281881, AA626678, AW088058, AI119984, T40338, H92005, AA714595, AA428414, AI801600, AI679379, AA342958, R44592, AI358343, AI624698, AI890928, AI679888, F37169, F24284, AI890570, AA829106, AA743956, AA342901, AI118947, AA652057, AA434484, AA919037, AI184226, AA649642, AA947547, AA641989, AA733208, F28576, AI193007, W56200, AI608626, AI561335, AW419118, AI569086, AI886176, N43757, AA057056, AI612032, AW406447, AA218645, AA557325, AI281903, AI287964, AI064864, T40617, AW337985, AA515051, AI287651, AI043721, AI039958, AI339850, AI249997, AW023672, R91994, AA663306, AI305547, AW167267, AI148245, T07451, AI079910, AI266133, AW276435, AA501722, AI962050, W25284, AA664535, AA450199, AI567674, AW130799, AI474713, AI038785, AI445436, AI041690, AI133164, AI890052, AC004603, L13709, AC008134, L13713, AJ006996, X55926, S70697, U02058, AC007437, AC006999, AC006002, L13714, AC007298, AC007681, U18394, AC005532, AC004006, AC006374, AC002289, U18393, U57006, X54180, U02063, AI022329, U57007, AI031732, AC010169, AC003075, AC004773, AC006275, Z98051, AC005754, AC007656, AC004833, AF064863, AC009227, AC005293, X55931, AI096776, AI022302, AI031257, AC002377, S70694, AC003109, AC005533, AI031965, AI078593, AC005037, AI132985, AC006925, AR042836, U02531, U18390, AC007227, AC002094, AC005553, AC007919, AF015150, AF015151, S70707, AF015149, AF042090, X55928, U57009, U18392, M87918, L81648, U02532, </p>
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HNGKM74	7801	942758	1 - 975	15 - 989	U57005, AC008059, AP000468, AJ011932, AC003691, AL031294, AC007076, AC004055, X55925, AC007677, U18391, AF067122, AC004933, AC002402, AC007688, AF015156, M96868, U18396, AL136363, AC006005, AC005785, Z95124, AL031178, AL096770, AC005002, AL096712, AC006501, AC005913, AC005234, AF029308, U18399, AC005144, AL031312, AF064866, U95742, AL008629, AC007216, AL133500, I51997, AC002128, AL109618, AC004519, AL121593, AL035665, AC006036, AL121652, X54176, AP000020, U18395, X55924, Z84814, AF041427, AC004040, AF121781, AC003003, AC004547, AC005993, AC004953, AC004816, AC005747, AC006040, AC008039, AC007364, AC005323, AC006195, AJ011930, AC004875, AF015148, U02507, AL031012, AC005242, AL031116, X55932, AF015152, AC007011, U67221, AL035361, U69569, Z84485, X03272, AL022166, AC004970, AC006199, AC005859, S83170, AC004057, AC004948, AC007204, AC004889, AC005731, AC004534, AC005962, AC005399, U18398, Z49769, K03021, AL121934, U69730, AC007393, AL049845, AC005161, AP000095, AP000239, AC006344, AC009479, AC007065, AL117356, AC002531, AC005516, AR036572, U91328, AC004019, X55922, U57008, U67214, X54177, U35114, AL096765, AF010238, AF094481, Z68869, AB014080, AC006565, AC000355, AC004643, AC004206, U63312, AP001043, AF184110, AC002540, AC004041, AF068862, AC004502, AC004612, AC003016, AL023799, AC015853, AC002383, AF188025, AP000514, AP000049, AP000161, AL035694, Z98172, AC007848, AC004900, AC004629, Z99571, AC003977, AC005484, Z95400, AL035067, AC001231, AL096829, AC006006, AL034351, AC004884, AL031668, AC004066, AC004010, AL031904, AL078463, AC006204, AC004859, AL132708, AC003081, AL020995, AC005039, AL034549, AC005157, AC007151, AC006033, AC005821, AC009223, AC006059, AC006552, AL031121, AC002542, AL136295, AC006312, U91321, and AC008372.
HNGKM74	7801	942758	1 - 975	15 - 989	AI344276, and AF015416.
HNGKL24	7802	974360	1 - 526	15 - 540	
HNGKJ02	7803	918622	1 - 717	15 - 731	AI580150, AI803419, AI379547, AI128109, and AI382855.
HNGKH07	7804	952210	1 - 234	15 - 248	AI468993.
HNGKG03	7805	922036	1 - 420	15 - 434	AA229992.
HNGKD49	7806	974364	1 - 536	15 - 550	AW403476, and W25389.
HNGKC69	7807	834922	1 - 759	15 - 773	
HNGKC21	7808	974581	1 - 345	15 - 359	
HNGKC06	7809	934309	1 - 696	15 - 710	AI125523, AW172301, AL043093, AI141715, AI634437, AI867768, AA927584, AA724084, AW016180, and AJ239329.
HNGKA11	7810	966117	1 - 462	15 - 476	AW014267, and AA085402.
HNGJV82	7811	778921	1 - 426	15 - 440	AW188181, AA224032, AA249197, and AC005940.
HNGJR05	7812	860357	1 - 455	15 - 469	AA458810, and AA781966.

HNGJQ96	7813	796414	1 - 382	15 - 396	Z94056.
HNGJQ36	7814	708121	1 - 299	15 - 313	AL037910, AI053445, AW082117, AA878149, AA603323, AA728978, AI347810, AA484143, AA555229, AI284640, AI673731, AI282661, AW238016, AA714467, AI818770, AI753267, AA524832, AL036283, AW275971, AC004231, AI008582, AF129756, AC004821, AC005375, AL096791, AL021391, AL049872, Z85987, AL022326, AC005519, AC002543, AC005632, AL096701, AC005899, AB023049, AC006211, AC005081, AC000134, AC005668, AC005768, AC006449, Z82180, AC004859, AC004814, AC005591, AC002470, AC004448, Z97054, AL034421, AL049569, AL031281, AC006285, AC005971, AC009516, AC003029, AC004257, AL031257, AL020993, AL022316, AL009179, AC006312, AC002544, AC005225, AC005730, AC004799, AC005726, L78810, AL078581, AL121652, Z83844, AC005041, AC004765, AC005212, AC004812, AL031666, AC020663, AC002350, U91326, Z94802, AC006011, AC000025, AC005154, AC004890, AL031680, AC004491, AD000092, AC009247, Z83840, AF196779, AL035659, Z99716, AC005678, AC004887, AC006071, AP000111, AP000043, AL121655, AC005164, AC002126, AF190465, AL049576, AL117330, AF045533, AC003007, AC005781, AL031311, AC000026, AC005660, AC006120, L78833, AC002418, AF051934, AC005874, AF134471, AC005702, L44140, AC008012, AF111169, AC006468, AL049869, AL109865, AC005291, AC006130, AC003101, AC004000, AL023882, AC005529, AP000512, D87675, AC012384, AC006480, D83989, AC004638, AL021154, AL121603, AL078639, AC004386, AL133448, AP000558, AC002300, AC004098, AC005255, AC007384, AC002059, AC005695, Z95114, AC005288, AC002365, AC004263, AC007066, AL035072, AL117354, AC007731, AJ229042, AC005261, AC006239, AF196969, AC006263, Z84572, AC005500, AL008715, AL133163, AC002347, AL049776, AC004472, AF126531, AC005914, AL049780, AC004526, Z98742, Z84480, AL008721, AL133245, AC005004, AC005484, AC008372, AC002091, AC002115, AC007216, AC007510, AF196970, AF053356, AC002316, AC002565, AC004477, AC006006, AC004955, AL133399, AP000065, U91321, AC003042, AL135744, AC008079, AC006241, AC007207, AC002563, AC007773, U95740, AL117344, AL109653, AC004972, AC005531, AC004687, AB023051, AC002395, AC007193, U91323, A39972, AC012627, AC009248, AP000557, Z68162, Z85986, AL035409, AL023553, AC005829, AL008730, AC004895, AC003688, AC003043, AC004685, Z84476, U62317, AC005527, AC004774, AL008710, AC007919, AP000356, AC005772, AL033525, AC005799, AC007298, AC002310, AP000504, AL021395, AP000090, and AC007546.
HNGJQ08	7815	959511	1 - 110	15 - 124	R83852, AC005326, and AC004924.
HNGJL47	7816	720363	1 - 641	15 - 655	AJ346735, AI304808, AA916741, AI273323, AI367917, AA190879, AA488481, AI273765, AA190847, AA488351, AI268909, AI263971, AW016733, and R45594.
HNGJK64	7817	746615	1 - 271	15 - 285	AC009247.
HNGJK63	7818	839947	1 - 373	15 - 387	AA861844, H68343, AI207424, AC002300, Z47066, AC005755, AC004913, AC004081, Z98051, AC002470, AC004953, AL133246, AC005730, AC005332, Z82196, AC005244, AL078639,

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HNGJK40	7819	711219	1 - 368	15 - 382	
HNGJ140	7820	711211	1 - 371	15 - 385	
HNGJ104	7821	615285	1 - 325	15 - 339	AA758934, AI334443, AI053672, AI754955, F36273, AI284640, AW238278, AI281881, H40410, AI801591, AI672135, AI133164, AI587583, AI587565, AI499503, AI355206, AL048142, AW021583, AA502155, AL041706, AI192631, AW270270, AA873573, AI919029, AA872067, Z78385, W79504, AW008317, AW073470, AI148277, AI144330, AI860020, AA573131, AI434311, AF029308, AL035494, AL031311, Z83844, AC002429, AL031427, Z86061, AC002430, AC005529, AC007384, Z69917, Z84480, AP000500, AC003109, AC005046, U91326, AC003007, AC005412, AL049872, AC004491, AC002470, AC005632, AL109623, AC005244, AC009069, AC005324, AC004895, AC003664, AL020993, AF124523, AC002301, AC005037, AL023553, AC005519, AC007488, AP000962, AC005015, AF091512, AJ003147, AC006211, AL022163, AC004257, AC006539, AL031728, AC005921, AC005699, AC005387, AC005019, AJ246003, AC006511, AC002045, AL022322, AL031770, AC005250, AL121658, AC009516, AL133448, AC006312, AL031650, AC004765, AC007878, AC005740, AC001231, AC007227, AC005516, AC005393, AC002115, AL121825, AC003101, AC004913, AC004067, AF134726, AL122020, AC006050, AC004638, AC007564, AC006017, AF200465, AC002312, AC003085, AC008372, AC020663, AC006480, AC004381, AC004825, AC007363, AC005527, AC004531, Z83840, AC005231, AP000553, AC002544, AC008064, AP000090, AC000025, Z54246, Z85987, AC002549, AC008101, AC004949, Z84484, AC004453, AL121748, AC004990, AJ011930, AC007731, AL034418, AC005500, AL121603, AP000114, AL049780, AB001523, AL033392, AC002425, AL139054, AC007510, AC004901, U95742, AC004019, AD000092, AL109967, AC009399, AL034343, AF023268, AC005988, D87675, AC005696, AC007130, AC002094, AC000134, AC005913, AC003982, AF129756, AL024507, AC002126, AC006079, AC006006, AC002395, AC005839, AC008079, AC005409, AL034402, AC003009, AC005406, AL031673, AC005619, AC010205, Z98200, AC006057, AL021808, AP000692, AL022313, AC004152, AC007216, AC005211, AF123462, U47924, AC007298, AC003003, AF067844, AL132994, AF146367, AF196971, AC004534, AL035458, AP000402, AL078477, AC005829, AL021546, U91321, AP000557, AC005358, AL031281, AC006479, AC004751, AC007225, AL020995, AC006241, AC006128, AC009288, AL049636, AC004963, Z93930, AL022332, AF165926, AL022476, AL021937, AC002394, AL049776, U63721, AL022328, AC004890, AL035684, AC005799, Z95889, AC007151, AL024498, AC000353, AL133485, AC007193, AC005768, AC004997, AL031319, AL035659, AF049895, AL023575, AC005065, AC010072, AC005520,

HNGJG75	7822	942946			15 - 1034	AC005585, AC008115, AC008055, AC005360, AC007537, and AC006013.
	7823	422897			15 - 393	
HNGJE38	7824	495689			15 - 630	AI580652, AA701121, AA488395, F34795, AF157623, AC005305, AC006479, AC000003, AC004905, AL022323, AC006011, AC004817, U85195, AC004878, AE000658, AL096701, AC005697, AC004935, AL049832, AL031984, AL031276, AF192789, AC006312, AC005940, AC004675, AL031277, D88270, L78833, AF109907, AC005379, AL139054, AC005138, Z97198, Z98200, AL109758, AL009183, AC005244, AL121603, AL049776, AD000090, AC003963, AC006130, AC004499, AC002115, U34879, L24094, AL022145, AF200465, AC006111, AC004098, AC004819, AC007073, AP001172, AL049757, AP000211, AC005722, AC005288, AP000348, AC007666, AL034420, AC001228, AL023879, AC002564, AC005567, AC004858, AC005911, AL031651, AC005071, L14752, AC005703, AL023553, AF088219, AC005667, AC002472, AL049867, AC007630, AF126403, AL031447, and AC000052. AA789303, AI810153, and AI914400.
	7825	600366			15 - 1072	
HNGJE23	7824	495689			15 - 630	AW303196, AI281881, AW301350, AI284640, AI567076, AW167372, AL042853, AI434695, AL043719, AW274349, AW407578, AA576336, AL119691, AA812139, AW193265, AI350211, AA584201, AA515829, AA127353, AA483771, AI431303, AA502103, AI345654, AI312309, AA716348, AA074130, AI929531, AA577906, AI937850, AA469451, AA405453, AW238278, F36273, AW028392, F18320, AW029038, AI754955, AW167799, AA947547, N75391, AL046409, AI151261, AI688846, AW276701, AW079135, AI254779, AW088846, AI919029, AA639250, AI061143, AI144101, AW021583, AW193432, AA806796, AI783494, AA584752, AI446464, AA640772, R98967, H90844, AW072923, AA649642, AL121235, AW276435, AI339850, AI962050, AA525824, AI696962, AA599920, AI564185, AI568678, AW261871, AI798489, AA490183, AW247819, AI245679, AI281697, AW302013, AI358571, AA502866, AA826303, AI061334, AA621936, AA631507, AA219115, F17891, AI262909, F36306, AL044940, AI085719, AW020992, AI754658, AA713891, AW302450, AW276817, AA578861, AA552856, AA664015, AI559705, AW408047, AA639248, AA552843, AI341548, F17555, H94870, AW089322, AA828042, M86143, AI918421, N64279, AA213741, AA548511, AA594145, AA347368, AA372478, AA502720, AA584176, AA661921, AI334435, AA569471, AI903462, AW327868, AW405021, AA715609, AA728990, AA908357, AI345418, AC008040, X54181, D83989, X54178, X55926, U57009, AP000493, X55923, U18394, X55927, U18391, U18398, AL121603, U18395, X54176, U18393, U18387, I51997, M87919, X54180, Z22650, AC005839, U18392, U18399, U57005, X55925, U57006, U67825, AL078604, X55931, AB001523, AF015160, X55922, AL031587, U57008, X54179, X55924, U67832, AC002527, U18390, AL049776, AF015148, AF090940, U67229, X55930, AL035448, AC005251, AL034451, AL021977, AL031662, X55932, AC006432, AC003950, AC004019, AL031311, U67221, U67211, AC008372, AF006501, AL050306, M37547, AF015156, AL023494, AC007114, AC007193, AL031295, AF117829, U67826, U91326, AC004592, AC007216, AC004522, AJ003147, Z79422, AC004972, AC004884,
	7825	600366			15 - 1058	

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HNGJE08	7826	973790	1 - 534	15 - 548	
HNGJE01	7827	973797	1 - 517	15 - 531	
HNGJC68	7828	888447	1 - 334	15 - 348	
HNGJC29	7829	695660	1 - 473	15 - 487	W57586, AW194627, W93807, AI079554, AW243050, AA279011, AI281191, AI143216, AA983569, AW294001, AI392855, AA557282, N49211, AI765833, AI335326, AA292772, AA705078, AI338729, AI241107, AA476900, AA251779, AI963754, AI087153, AI636442, AI857402, AI949689, AI763030, AI884606, AA704804, AA731007, AI376580, AA921827, AI032953, AI823966, AI915274, AA522479, AI968828, AI797706, Z74023, AF131220, and AF172244.
HNGJB49	7830	723004	1 - 699	15 - 713	N63664, N59771, N91071, AI084981, N78232, R00854, and R01507.
HNGJA75	7831	888461	1 - 407	15 - 421	AC004908, AL031259, and AC004842.
HNGIX71	7832	760398	1 - 455	15 - 469	R94022, and T95558.
HNGIW45	7833	717698	1 - 360	15 - 374	AI133083, AW081303, AI798493, AA128511, AW410354, AL047349, AA630245, AA486568, AA552202, AW020088, AA604831, AW191886, AI915293, AW022934, AW021161, AL049872, Z82178, AC003098, AC006538, AC004881, AC004491, AF207550, AL022302, AC005756, AC002470, AC007193, AC006160, AC005368, AC004757, AC005619, AL021707, Z84480, AC002544, U62293, AL031728, AL049569, AC007686, AC002398, AF053356, AC005821,



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HNGIS92	7834	792748	1 - 528	15 - 542	R19806, and AC004169.
HNGIS70	7835	757216	1 - 682	15 - 696	H96207, and AL572367.
HNGIS02	7836	920221	1 - 529	15 - 543	AL565849, and AL375659.
HNGIR10	7837	964715	1 - 487	15 - 501	AW005230, AL598235, AL918190, AW004702, AL655877, AW264973, AA640272, AW088202, N34704, N71724, AA340960, AA133986, AF177861, AA344959, AL138421, AJ003147, AC020663, AC007228, AC004890, AF091512, AC005261, AC004821, AF134726, AL050097, AC006478, AP001068, AP001067, AJ011930, AL035638, AB011129, AC007488, AL096867, AD000092, AC006059, AC003006, AC006548, AC006213, AC007204, AC007182, AC005387, AC004382, AF001549, AC007011, AF106656, U67213, AL022238, AF030453, AC005519, AL031662, AC006285, AC005088, AC007845, AC002404, AC006277, AC016025, AC005839, AC005666, AP000474, AC005696, L44140, Z99758, AF053356, AC005772, AC006543, AL021918, AJ012197, AC005829, AL109621, Z86090, AC007387, AC006552, AL031685, AC005412, Z54334, AL132992, AC006544, AC006480, AC004783, AL133238, AP000115, AC002306, AC006323, AC006222, AC007666, AC005913, AC000052, AF207550, AL021707, AC006539, AC004019, AC002991, AC004816, AC006116, AL109798, AP000355, AC006538, AC002492, AC008372, Z85997, AC005215, AP000503, AC005694, AL031286, and AC003003.
HNGIQ78	7838	772866	1 - 405	15 - 419	

HNGIQ71	7839	495771	1 - 494	15 - 508	AA458777, AC007387, and AC006544.
HNGIP47	7840	720374	1 - 437	15 - 451	AC007011.
HNGIP27	7841	860515	1 - 590	15 - 604	
HNGIO64	7842	487439	1 - 511	15 - 525	
HNGIO52	7843	727196	1 - 621	15 - 635	
HNGIL94	7844	793171	1 - 383	15 - 397	N40971, and AA644354. AL826442, R43468, AL1919765, AA768079, H48670, AL078474, AL023876, AC006211, AC005215, AC002418, AC004386, U47924, AL050307, AL022326, Z69709, AB023048, AC004650, AC007537, AL031255, AC005940, AP000150, AL034379, AC006273, AC004526, Z95115, AC005280, AP000009, AC004765, L05367, AC005480, AL031589, AC007546, AL133245, AL121655, U91323, AL049843, AC006064, AC007540, Z84469, AC002351, AC005694, AC007030, Z82178, Z93023, AL009179, AL035072, AL008582, AC007225, AC005399, AL021155, AL031680, AC004673, AC004812, AL109623, AL031587, AC007066, AL022318, AL109865, AC004019, AC005914, AL035398, AC004897, AC005529, AL034420, AC007421, AC002126, AC006312, AC006365, AL049869, AC004859, U62317, AL122020, AL049759, and AL096703. W81663, AL375213, W81222, and AF086461. AL755214, AL754567, AL754170, AL348597, AL754105, AW069412, AW069227, AA503298, AL634187, AA833875, AA833896, AL701950, AL701942, AL613389, AL133083, AA768340, AW075132, AA192293, AL249688, AL037927, AL362552, AA600202, AL469599, AL446474, AL583142, AL590458, AL457313, AW419389, T47138, AA714011, AA706495, AL004591, AW304580, AW190484, AL267356, AL251429, AA644090, AL569982, AL079734, AW161016, AL036070, AL038304, AL254779, AW089016, AL653636, AL536834, AA654781, AA568314, AW192599, AL569100, AL053786, AL570943, AL590499, AA297776, AL921744, AW105463, AW275432, AW023672, AW021154, AA559241, AL267450, AA779783, AA524616, AA507282, AL635609, AL566408, AL371208, AA299589, AL565126, AL610737, AA405726, AA262752, AA809546, AL732720, AA492105, AA832145, AL791659, AL078409, AW105729, AL570805, AA218720, AA864426, AA526625, AA526326, AL912401, AW151247, AA456924, AA176605, AA579152, AA657374, AA487226, AL431513, AL040054, AL745335, AC004655, AC005535, AP000048, Z98036, AC007292, AC004216, AC005839, AF111168, AC007792, AC004517, AC004472, AC005907, AL031447, AB015355, AL122020, AC004983, AC004034, AL031433, AP000952, AC006111, AC002350, AC007066, AC004865, AC005067, AC005529, AC003963, AL033527, AC005736, AC005218, AC004884, AL031311, AC000353, U85195, AL133448, AP000212, AP000134, AL031685, L44140, AC002480, AL022238, AP000030, AC004009, AC006130, Z93096, AC016025, AC004838, AL031432, AE000658, AC005548, AL035072, AC004686, AC004228, AL031284, AC004650, Z92542, AL022323, AL109628, AL034420, AC005378, U07563, Z97183, AC005696, Z93023, AL133245, AL049776, AC005520, AC005081, Z98950, AC006285, AC005632, AF196969, AC005971, AF207550, AC005606, AC002347,
HNGIL84	7845	781970	1 - 959	15 - 973	
HNGIL82	7846	812699	1 - 355	15 - 369	

					AC003025, AC004079, AC007676, I78810, AC004859, AP000555, AL022320, AL022721, AJ011930, U80017, AC005730, Z85986, AF139813, Z98941, AC005914, Z30979, AC005682, AP000512, S42653, AC003982, AC006576, AC007731, AL133163, Z99127, AC006441, AC005363, AL023553, AC005500, AC002070, AC008928, M87889, AL008722, AC004973, AL022396, AC005332, AC006459, AC004999, AL079295, U95740, I34294, AC002119, U95090, AP001052, AL035447, AC004644, AC006026, AL034379, AC005288, AC005820, AP000089, AC005094, AC004477, AC005331, AC004821, AC002045, AL079304, Z94056, U50871, AC006511, AC005330, AC003041, AL133312, AC005625, Z83844, AC003007, AL031777, AC007225, U91321, AC005193, AL031589, AC004922, AL031228, AC002073, Z94801, U73169, AC007993, AL022326, Z54246, AL049766, AC005399, AC004491, AC005261, AC000159, AL080243, AC004531, AC005899, AC004876, AC005523, AL035458, AL022322, AD000092, AB026898, AC004805, AL035562, AP000697, AC004953, AC004253, AC002483, AC007011, Z97181, AL020997, AF053356, AC004408, AP000502, AC009509, AC004778, AC002565, AL022316, AC005520, U08988, AC005568, AC005781, AC005412, AC007546, AC008134, AC010077, AC006372, Z97352, AP000505, AC006261, AC008981, AL109758, D86991, AC004804, AL109939, AL049757, AC004000, AC005245, AC006057, U95742, AB023049, X74558, AC005620, AC003046, AL031584, AC004019, AF001548, AL022165, AC004223, AC000025, AC006312, AC007057, AC005844, AL096701, AL122023, AC002301, AC004534, AP000116, AL121653, AL020996, AL109984, AC005562, AC008044, AB025285, AB016897, AC005180, AL033547, AC002563, AC007358, AC006512, AC006155, AF134726, AC002303, AC004813, AC005754, Y14768, AC005722, AC006046, AC005215, AC006077, AC005829, and AC005318.
HNGIL51	7847	725003	1 - 434	15 - 448	AA883992.
HNGIL22	7848	860525	1 - 383	15 - 397	AA856923, N68820, AA077081, U68061, AL022241, and AC004830.
HNGIJ51	7849	868068	1 - 611	15 - 625	AA845599, and AL079672.
HNGHY44	7850	973977	1 - 437	15 - 451	AI708005, AW078495, AA375579, AA441788, AI886085, T58469, AA528195, AA502103, AA176970, AL460390, AL040115, AA515938, AA604607, R79654, AA199660, AI358513, AA494075, AA578711, AI648440, AA179165, AI653936, AI675590, AA341941, AI373405, AA722049, H96823, AI424064, AW028950, AA583579, AW151762, AI439450, AI061054, AI270656, AI453458, AA197089, AI365618, AA581342, AW080963, AI889539, AL042213, AA583568, AA780528, AA402709, N86047, AA653291, AA297496, AA346861, AI310343, W01078, AI800345, AA161181, AA653327, AI735200, AA838162, AA706845, AA226346, N73203, AA196390, AA487872, H90403, AW022292, AA191389, W95985, N40689, AA382102, AA663086, AA663115, F23263, AA357240, AA652057, AA649642, AA016286, AA491889, L81415, AC005755, AP000345, AC008929, AF157623, AC006084, AC004820, AL031650, AC005863, AF053356, AL035587, AF045555, AL035695, Z83840, AC002064, AC005081, AF039396, AC004549, AF067574, AC005562, Z99496, AC008072, L48038, AC005175,

HNGHO94	7851	793271	1 - 205	15 - 219	AL022237, Z93016, AC004841, U18671, AC006127, AC004525, AC002303, AC004686, Z97181, AC005602, AC005067, Z85996, AC007899, AC002984, AD001527, M63543, X55448, M63544, AC005049, AD000092, AC003086, Z84476, AC007279, AL096791, AL049594, AC005881, AC007738, AL049781, Z82246, Z69920, AC005944, AL034429, AL049765, AL049869, U62317, AL031116, AC004622, Z95115, AC011604, AC006960, AF015262, AJ229043, AC004605, AF015165, AC004933, U75285, Z48051, AC007059, AC004462, AC006275, AC005625, AC006162, AL034582, AP000455, AC008103, AP000008, AC005213, L77570, AP000704, AC001231, AC006316, AL132716, AC006948, AL080243, AL121576, L44140, AC000003, AP000555, AJ250235, AP000144, AL109967, AC002331, AC002465, AC006946, AC005952, AL080313, AL035530, AL023653, AC007390, AC002316, AP000549, AC007766, AL034377, AC009044, AC009263, AF109907, AC007276, AJ000501, AL118516, AC004161, AC007096, AC005018, AF124523, AC002551, AL049795, AC018633, AL135746, AL117693, AL050308, AF001550, AC004491, AC000026, AL022325, Z81314, AF035397, AF003627, and AC004856. AC004967.
HNGHM61	7852	576221	1 - 483	15 - 497	
HNGHL46	7853	860541	1 - 517	15 - 531	AA078128, AL049576, AF053356, AC004895, AC005520, AC005071, AC004686, AC004595, AC004813, AC007688, AC002312, AP000555, AL133245, AC005015, AL109963, AL035587, AL031846, AF047825, AC004883, AL022316, AC007055, AC005484, AC005225, AC005081, AL031589, AC004854, AF205588, AL035422, AL049780, AC010205, AL121603, AC007938, and Z93023.
HNGHJ01	7854	916757	1 - 517	15 - 531	AA629328.
HNGHG39	7855	860554	1 - 388	15 - 402	AI003408.
HNGHD68	7856	576315	1 - 493	15 - 507	
HNGGV02	7857	920377	1 - 439	15 - 453	AC002554.
HNGGT08	7858	959649	1 - 374	15 - 388	T91220, AA258779, AC009731, and AC004530.
HNGGP91	7859	576251	1 - 457	15 - 471	R73389, R73388, and AC005015.
HNGGP55	7860	578450	1 - 251	15 - 265	AP000523.
HNGGL74	7861	765644	1 - 815	15 - 829	AW406755, AI305766, AI358229, AL037683, AI284640, AW085794, AW023672, AI350211, AA719805, AW193265, AL042856, AA810318, AW419262, AW088846, AI963720, AI334443, AL079645, AA573020, AA649642, AI270117, AI569086, AA482711, AA657835, AW088202, AI954260, AL044940, AA551503, T29180, AL138455, AI368745, AW249224, AI865364, AW020141, AI431303, AA259245, AI079910, AA244357, AI688846, AI110770, AI003611, AW080134, AL133723, F29989, AL046409, AI365988, AW327868, T40617, AW339687, AI821918, F18974, AA344959, AI635272, AW019964, AI358501, AI223616, AA843450, AW264973, AA669251, AA834792, AA559290, F36273, AI434706, AA652057, AA482806, H02631, AW069481, AF177861, AA774184, AA665330, AW088616, AI821881, T91187, AA631507, F28576, AI613280, AW276435, AA449088, AA350859, AA347927, AA148489,

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HNGGF86	7862	860568	I - 414	15 - 428	
HNGGB58	7863	738213	I - 359	15 - 373	R62392.
HNGGB28	7864	703315	I - 295	15 - 309	AA679811, AI767394, and AP000523.
HNGFX89	7865	506492	I - 641	15 - 655	C15076, D59467, D59787, D80164, C14389, D59619, D80210, D80240, D80195, D58283, D80391, D51423, D80196, D80219, D51799, D80253, D80227, D80188, D81030, D80022, T03269, D59927, D80166, D81026, D80193, D80212, D59859, D80038, AA305409, D80043, C14331, D59610, D59502, D59275, D57483, D80366, D59889, D80024, D80269, D80064, C14298, D50979, D80241, D50995, D51060, D59695, D80522, AW378532, C75259, D80378, F13647, D51022, C14429, D80134, D80045, C14014, AW178893, AW179328, D80251, AW177440, AA305578, AW178775, AW369651, D80248, AA514186, AW352158, T11417,

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HNGFX75	7866	608695	1 - 1016	15 - 1030	<p>A1061313, AW167154, A1246996, AA135761, AL119838, A1281818, H63092, AA484892, F24745, AA578690, A1270476, A1598003, AA634837, AA728911, AW238121, T05118, AA809546, AA441810, AF139813, AL049776, AC004228, AL121658, Z96074, AC006205, AL031311, AC003025, AC006480, AC004014, U91318, AC002464, AC007537, AC005049, AC005372, AC006430, AL049780, AL049843, AC008101, AP000557, AC006230, U82668, AL122020, AC008115, AP000044, AP000112, AC002132, Y18000, AC006064, AC006449, M87889, AC005387, AC004408, AF129756, AC006511, AL031670, AC002996, AL008726, AC004584, AC005529, AL021393, AF196779, AC007421, AC004686, AL008627, AL021155, AC006538, D87675, Z82203, M59199, AC005829, AL135744, AF050154, AC006597, AC002072, AC002314, AC005682, AC008055, AC005005, AL035697, AC005363, AC008079, AP000134, AP000212, AC000003, AC005620, AC004743, AL049795, AL122023, D84394, AC006013,</p>

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HNGFU33	7867	702584	1 - 675	15 - 689	N45312, AT761447, AI636286, N71104, AI636173, AI143859, W68421, W68519, AI561031, AW381539, AI589337, AA778620, AA771992, AA744429, AA921991, AW196737, AW381478, AW381460, AA889180, W05847, AI370531, and AI932774.
HNGFT02	7868	920480	1 - 307	15 - 321	AA716766.
HNGFR06	7869	935821	1 - 510	15 - 524	R61534, AI681105, AW082635, H00958, AI871530, AI986039, and AI378964.
HNGFP92	7870	842276	1 - 609	15 - 623	
HNGFN70	7871	872950	1 - 331	15 - 345	AC005316, and AC005317.
HNGFM17	7872	664280	1 - 623	15 - 637	H66970.
HNGFK34	7873	703419	1 - 296	15 - 310	
HNGFI11	7874	967304	1 - 406	15 - 420	
HNGFH90	7875	789066	1 - 493	15 - 507	AA226156.
HNGFH58	7876	738240	1 - 515	15 - 529	AA081717.
					H63640, T79700, AI657076, AB011135, AC005829, AC005670, AC005332, AC004675, AF088219, and AC007993.
HNGFH30	7877	823363	1 - 2788	15 - 2802	AI889426, AI433104, AI921744, AI130647, AT732911, W96277, AW408643, AA634991, AI679002, AW089625, AA534064, AA658844, AA650623, AA626632, AA595370, AL134940, AI583532, AA486896, AL040921, AW167330, N70044, AW406447, AA831913, AI457389, AI820992, T57096, AT709211, F32373, AI192631, AI110760, AA825954, AI832865, AI128899, AA584482, AW272294, AA225406, AI890324, AA503298, AA916430, AI560241, AW069227, AI687343, AI635028, AA609826, AA078849, AW190484, AA456924, AA707758, AA608588, AI984168, AA424078, AA665449, AA020873, AL037927, AI371208, AA299589, AI565126, AI610737, AA405726, AI888468, AA773098, AI282253, AW410195, AI370170, AW084445, AW268329, AW023111, AA720582, AI870453, N72678, H53546, AA608612, AA630854, AI634187, AA809546, AA584489, AW083934, AI090377, AI889579, AA021561, AI199816, AW068596, AI572680, AA805869, AA297776, AC004883, AF111169, AL021707, AC006057.

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HNGFG10	7878	968059	1 - 1028	15 - 1042	AA025836, AA723506, AA457243, and AA457244.
HNGFF50	7879	941480	1 - 2217	15 - 2231	AC005342.
HNGFE75	7880	486855	1 - 549	15 - 563	AL049594.
HNGFES8	7881	871493	1 - 620	15 - 634	AA148705.
HNGFA23	7882	927579	1 - 236	15 - 250	AA953959.
HNGFA18	7883	666626	1 - 383	15 - 397	AA029118, AA770385, and AA629144.



HNGEY55	7884	888324	1 - 363	15 - 377	
HNGEY38	7885	868073	1 - 538	15 - 552	T25322.
HNGEX10	7886	860615	1 - 639	15 - 653	AA593968, and AW138070.
HNGEW38	7887	573234	1 - 799	15 - 813	H22044, AA354647, AL042044, AL008724, AL033538, AB028966, and AL080174.
HNGEU20	7888	669811	1 - 522	15 - 536	R76032, and R30916.
HNGET91	7889	789373	1 - 403	15 - 417	R68338, and R31248.
HNGER86	7890	578910	1 - 250	15 - 264	AA721530, AA376872, AA493731, AA620373, T97368, AA728925, AA719292, AW028089, AA167335, AA086435, AA173071, AL040154, N23840, F00979, AA004654, AA776194, AA330897, W86573, AA554257, AA728963, W81359, T89855, AA206062, AA070740, N23062, AA425744, AA167159, N40815, T72218, AA984222, H86041, AA640252, T53253, T61555, AA526099, AA608570, T47889, R92217, R89784, AL034429, AC005519, AF064865, AL049757, AL034369, Z95152, AC004475, AL135959, AC004031, AC005905, AC005089, AC006333, AL022241, AL132826, AL034376, L77036, AC000352, Y11107, AC004753, Z82176, AC005502, AC005685, AC003963, AC005074, Z82243, M89651, AL031602, AC004775, AC006599, AP000223, AL008637, AP000008, AP000086, AC006959, AC004910, AL034553, AC004917, AC005924, Z98052, AL031276, AL049643, AC006148, AP000704, AP000547, AC004638, AF030453, Z84466, AC004525, AC006001, AC004590, AC003029, AC004820, AC004671, AC004701, AC004768, AL024509, AL035685, U91323, AC005082, AL080243, AC010582, AC005736, and AL049635.
HNGER73	7891	578909	1 - 312	15 - 326	
HNGER62	7892	578922	1 - 293	15 - 307	
HNGER61	7893	578907	1 - 312	15 - 326	AL117546.
HNGER50	7894	576479	1 - 304	15 - 318	AA657451, AA744068, AA745459, AI783581, AA872180, AA745393, AA745533, AA024691, AA547979, AA744084, AA603881, AA650175, AW076090, AA083028, AA610432, AA085372, AA429197, AA429020, AI826253, AA631359, AA873176, AA461617, AI580250, AA601218, AA594220, AA502991, AA290878, H60533, AI251591, AI679782, AA486559, AA811208, AA668387, AA601327, AL035659, U08988, AR036572, AC004890, AP000088, AL139054, AL096701, U91328, AL035249, AC002988, AC002072, Z93241, AL023803, AC005971, AC008040, AP001053, AC006276, AC005102, AC004216, Z86090, AL049766, AL022238, AC002073, AC005291, AL034423, AC005280, AC004796, AC002352, AP000140, AC005255, AP000553, AP000557, AC009516, AL121655, AC002477, AL049776, AC004656, AC006312, AC003038, AP000045, AC005763, AC007308, AL121658, AL132985, U80459, D83253, AC009247, AJ246003, AL133382, AL031390, AL031685, AC005519, AL022476, AP000694, AL023553, U80017, AL080243, AC004019, AC006441, M89651, AL022326, AC002430, AC005531, AP000228, AL133448, AC003070, AC004905, AC006001, AC000095, AL033524, AC010382, AC007384, AL024498, D84394, AL035587, AC005514, AP000501, AC005391, AC006449, AF207550, AC005666, AC005736, AC007542, Z95116, AC006960, L34079,

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HNGER38	7895	578908	1 - 286	15 - 300	
HNGER26	7896	860623	1 - 394	15 - 408	
HNGEO79	7897	951489	1 - 782	15 - 796	AW403530, C14389, C15076, D59467, D80164, D81026, D59787, D80195, D59502, D81030, D80166, D80022, D59275, D80227, D58283, D80391, D59859, D80193, D59619, D80210, D80240, D59610, D51423, D51799, D80253, D80043, D80038, D80269, D80196, D80212, D50979, D80219, D80188, D59927, C14331, D57483, D80366, D59889, D80241, D50995, D80045, D80251, D51022, D80378, AW177440, AA305409, D80024, C14429, D52291, AW378532, AA305578, D51060, C75259, T03269, D80522, AW178893, C14014, AW179328, T11417, AA514188, D80248, D51250, AW369651, AW352158, D80134, AA514186, D58253, AW178762, C14077, AW178775, D80133, AW177501, AW177511, D80132, AW176467, AW360811, D80268, F13647, C05695, AW352117, C06015, AW377671, AW375405, D80302, AW378540, C14407, AJ910186, AW366296, AW360844, AW360817, AW375406, AW378534, AW179332, AW377672, AW179023, AW178905, AI557751, AI905856, D80439, AW352171, D51213, AW377676, D80247, AW178906, AW352170, AW177731, D59373, AW178907, AW179019, AW179024, Z21582, AW177505, AW179020, AW360841, AW178909, AW177456, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018,

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HNGEN04	7898	586457	1 - 331	15 - 345	
HNGEK57	7899	734923	1 - 293	15 - 307	AA080935.
HNGEK16	7900	578914	1 - 441	15 - 455	AC004674.
HNGEI44	7901	800199	1 - 389	15 - 403	AL008628.
HNGEI11	7902	967314	1 - 439	15 - 453	AA176651, AC006011, AC005204, AC011604, AC004610, AC003077, and AC005337.
HNGEG07	7903	953658	1 - 609	15 - 623	AA457286, and AC005920.
HNGEF81	7904	570236	1 - 274	15 - 288	AP000344, AC007663, AC006549, AC000097, and AC006547.
HNGEE10	7905	968043	1 - 602	15 - 616	AA176861.
HNGED92	7906	654085	1 - 686	15 - 700	AC005823.
HNGED46	7907	838885	1 - 429	15 - 443	AI242667, AW271430, AC007313, AC002369, and AC005034.
HNGEB84	7908	783132	1 - 336	15 - 350	AL046060, T69835, N69499, and AL008718.
HNGEA17	7909	561293	1 - 249	15 - 263	
HNGDZ93	7910	888677	1 - 214	15 - 228	
HNGDW53	7911	973311	1 - 502	15 - 516	
HNGDW19	7912	502499	1 - 434	15 - 448	
HNGDV38	7913	572912	1 - 215	15 - 229	
HNGDV26	7914	572906	1 - 287	15 - 301	AA707705, AA707782, AC004788, AC005208, AC006213, AC002426, AL021939, AC010206,

HNGDV15	7915	572902	1 - 283	15 - 297	AC002040, and AC004822.
HNGDV02	7916	920504	1 - 258	15 - 272	AC005799.
HNGDV01	7917	916989	1 - 297	15 - 311	AC005669.
HNGDS21	7918	396889	1 - 700	15 - 714	AP000547, and AL121825.
HNGDR65	7919	572896	1 - 239	15 - 253	
HNGDQ68	7920	753164	1 - 553	15 - 567	AA085245, AA355671, AL137191, and UI5177.
HNGDQ56	7921	733550	1 - 435	15 - 449	TS2788.
HNGDO68	7922	753580	1 - 257	15 - 271	R00963, M62017, and AC005753.
HNGDO54	7923	521883	1 - 356	15 - 370	AW151587, N34413, R52428, AA548692, AA372303, AA442528, AI821985, AA947534, AI732860, AA524832, AI446259, AW245354, AI049709, AA828641, AI744949, AL135744, AC006948, AL021578, Z93023, AL021368, U95626, AL031120, AC007537, AC007919, Z84477, AC006127, AL050348, AJ246003, AC005839, AC007283, AL022098, AL079304, AL034371, AL109798, AC003963, AC006511, AC006996, AC005178, Z93783, AL096791, AL021938, AC004526, AL121754, AC005971, AC005722, AC005756, AC004150, AL049539, AP000023, AL035071, U91321, AC004821, Z69917, AL022719, AL031985, AC003663, AL035088, AC004975, AL079342, AC005354, AC006317, AL133163, U07562, AC008009, AL049829, Z83844, AC004106, X71342, AC005274, AC005841, AL109627, AL031311, Z93241, AC003099, AC005293, AL034555, AL121658, AC004477, AC005598, AL117352, AL035423, AC016025, AC009247, AC003104, Z94721, Z98886, AC005179, Z85987, Z98949, AL031602, AC005037, AC004967, Z97054, AC005288, AC005695, AB001523, AC006241, AC007395, AC002316, AC006120, AL049780, AL031775, AF196779, AC004167, AL035422, AC004584, AC004675, AC005369, AC004587, AF064861, AF205588, AC004933, AL035658, AL031589, U52427, AC007421, L78833, AC007731, AC012627, AC007917, AL121653, AL078644, AC005620, AC005738, AC005548, U95742, Z85986, AC004887, AC004033, Z84484, AF088219, Z97205, AB023049, AF069291, AP000132, AP000210, AL035400, AC005940, AC005531, AC005678, AP000356, AL022324, AC007216, AP000088, AC004491, AL022336, AC005874, AF134471, AC005815, AC005899, AC020663, AC007358, AC000052, AC005041, and AL078477.
HNGDO53	7924	574450	1 - 204	15 - 218	
HNGDO52	7925	868772	1 - 300	15 - 314	AI093647, AA716146, AA749073, R49009, AA506527, AI073736, AI191643, R45527, AI394236, AI278266, AA988102, AI123578, AI201722, AA010543, AA729674, AI953613, AA977224, AW084266, AI471058, AI127344, AI079368, AI355607, AI890557, AI081829, W87769, AA236572, AW407241, AA358614, AA402984, H69243, AI701110, W94570, R45526, AA679112, R37845, AA424401, AI910481, AI347131, and AA402135.
HNGDO40	7926	574449	1 - 152	15 - 166	AC005950, and AC001228.
HNGDO30	7927	574446	1 - 119	15 - 133	AC007785.

HNGDO29	7928	526804	1 - 333	15 - 347			AC006376, L38797, AL121934, AC004236, and AL117327.
HNGDO18	7929	526514	1 - 403	15 - 417			AC006367.
HNGDO06	7930	936059	1 - 335	15 - 349			
HNGDO05	7931	932400	1 - 129	15 - 143			
HNGDO04	7932	523469	1 - 325	15 - 339			Z78304, AP000113, AP000045, and AC006071.
HNGDM11	7933	967512	1 - 522	15 - 536			R78482, AA649326, and AW303334.
HNGDL51	7934	860671	1 - 1029	15 - 1043			AW378532, C14014, H73550, D80164, AA547979, W61253, C15076, D80045, A1791227, AC003684, AC002519, AC002073, AL022165, AC000403, AC002559, AC004983, AL109755, AC007285, AL031293, AC007225, Z95116, AC006312, AC004707, AL020995, AL050307, AL022316, AL034429, AC007151, AL121595, AL022238, AC005971, AC002326, AL049765, AL031320, AC004876, AC008101, Z98200, L44140, AC002425, AC005071, AC006014, AF001550, AC003962, AL022329, AC005005, AC004966, AC005620, AC006012, AC007227, Z46936, AF111167, AC002350, AC005488, AC016027, AC005412, AC016830, AC004216, AC008079, AC005519, AC006965, AC002563, U07563, AC004517, AL034423, AF001552, AC004671, AL031591, AL035587, AP000356, AC000353, AL031670, AL031427, AC007011, Z97054, AC003012, AC002072, AC004967, AC002312, AC006388, AC004616, AC005736, AL096791, U47924, AL078584, AL031121, AC006023, AC005527, AC005667, AC008040, AC004882, AP000045, AC005086, AC004522, AC006011, AP000055, AP000170, AP000123, AC003026, AC005808, AC005821, AC005332, AL035086, AL133485, AC008044, AC006001, AL033521, AC002381, AC004531, AL031291, AC007637, AC004921, AC004662, AC005015, Z95115, AC005696, AC005839, AL133396, AC004832, AC002302, AL049776, AC002543, AL035400, AC018633, AL030996, AC005197, AP000313, AC004914, Z97053, AC005881, AL049631, AC004848, AL022336, AC005678, AL022476, AC005529, AC004067, AC008116, AC005328, AC004551, AC002300, U52112, Z94056, AC007664, AC004041, AC007376, AP000050, AC005874, AF134471, AC005089, AC005585, U91325, AC005632, AL049758, AC008018, AC004997, AL031431, Z68164, Z98304, AC003667, AP000193, AC004996, AC005778, AC007919, AC005856, AC004922, AC004804, AC006430, AC016025, AF129756, AC002132, AC004020, AC002551, AC009516, AC004491, AC005484, AL031848, AL049869, AC008072, AL023879, AL049781, AC003950, AF196969, AC007057, AC006512, AC008009, AC003663, Z98036, AC007021, AL034548, AC004678, AP000117, AC004084, AC006146, AC006960, AC005274, AC007684, AC005725, AC003108, AL133216, AC004560, AP000272, U91318, AC006449, AC004134, AC003690, AF024534, AL121757, AC007050, Z97939, AL021154, AF069291, U95740, AC008372, AC002369, AL050318, AC004151, AL031673, Z97630, AC004813, AL121748, U82828, AP000557, AL031295, AC004638, AL049795, AC007073, AC004019, AC004453, AL035659, AL050312, AC004699, AC008012, AL096773, AP000248, U91323, AC007546, AC004923, AD001527, AC004150, Z84484, AP000695, and AC005048.

HNGDF94	7935	796744	1 - 114	15 - 128	
HNGDF70	7936	506694	1 - 238	15 - 252	
HNGDF58	7937	506693	1 - 562	15 - 576	N79214, N79207, and Z95115.
HNGDF38	7938	574349	1 - 344	15 - 358	AI133044, and AC000080.
HNGDF10	7939	968240	1 - 336	15 - 350	
HNGDE79	7940	781680	1 - 430	15 - 444	RI5702.
HNGDE74	7941	765812	1 - 415	15 - 429	T81056, H72210, and AC003079.
HNGDD27	7942	860680	1 - 397	15 - 411	AA319803, AI340151, AA368329, CI4121, AI889426, AA745356, AI281622, AA604149, AF196971, AC006071, AC005785, AC007382, AI078581, AC002310, AC005914, AC008078, AC007731, AC005500, AC004821, AC004815, AP000356, U85195, AC005031, AC002470, AC003664, AC004448, AE000658, AC005409, AC007707, U80017, U29953, AI031683, AC004097, AC004797, Z84480, AC004890, AC004477, AI031681, AC004770, AP000563, U91319, AC005015, AC005944, AC004638, Z83826, AI049843, AC004653, Z82188, AC006285, AC005399, AC005037, AC005696, AC005899, AC002550, AC004236, AI031584, AI133382, AI121652, U95739, AP000133, AP000211, AP000501, Z82214, Z86090, AI049712, AF129077, AC006088, AC007666, AC005480, AI050318, AC005776, AI049776, AI109628, AI049872, AC005736, AF001549, AF165926, AC004999, AI049759, L78833, AC004125, AC006241, AC004883, AC005057, AB023049, AI034420, Y10196, Z83840, AI031228, AC004491, AC005620, Z84487, AD000092, AI034419, AF207550, AF196779, AP000031, AP000210, AP000132, AC005746, AI050341, AI117258, AC006130, AC005578, and AC004991.
HNGDD03	7943	924933	1 - 188	15 - 202	AI523540, AI358513, AW404543, AI048969, AP000347, AP000346, AJ224162, AC004842, Z95114, AC003665, AC002322, AP000555, AP000354, AJ229041, AI022311, U67093, AR028159, AC007242, AI035249, AC005338, AF047825, AC005358, AI109963, AC008545, Z94056, AI031681, AC004921, AP000512, AF111169, U82828, AC006328, AD000833, AI033504, AC004124, AI008635, AI022721, AC018633, AB023051, AC002546, AB016897, AC007052, AC007785, AC004997, and Z74021.
HNGDD02	7944	920675	1 - 172	15 - 186	
HNGDB78	7945	772804	1 - 300	15 - 314	AP000555.
HNGDB61	7946	742043	1 - 460	15 - 474	AA137010.
HNGDB59	7947	688019	1 - 149	15 - 163	AI021398.
HNGDB54	7948	574359	1 - 178	15 - 192	
HNGDB40	7949	574346	1 - 96	15 - 110	
HNGDB16	7950	574352	1 - 121	15 - 135	
HNGDB04	7951	576460	1 - 149	15 - 163	AA326984, and T82481.
HNGDA08	7952	959964	1 - 441	15 - 455	AI088884.
HNGCZ54	7953	730895	1 - 437	15 - 451	H30669.

HNGCY60	7954	827144	1 - 559	15 - 573	W79559, A1916779, and AW304481.
HNGCY10	7955	968247	1 - 320	15 - 334	AA259067.
HNGCQ38	7956	544484	1 - 1014	15 - 1028	
HNGCP14	7957	417271	1 - 587	15 - 601	T98876, AA146850, and AL122007.
HNGCO71	7958	663340	1 - 639	15 - 653	AW273218, AA378690, AL281818, AL791913, AL917132, AA904275, AL252506, AA601294, NS4152, AL493583, F35689, AA045734, AL301700, AA934680, AA070614, AL654525, AL754653, AW304536, AL792133, AA516226, AL9333714, AA494097, AL821714, W45205, F30586, AF207550, AP000501, AL022238, AL080243, AC004973, AC004983, AC006077, AL0222721, Z97054, AF111168, AC006511, AJ011930, AL008726, AC002126, AC000159, AC009516, AF002223, AP000704, AL034548, AC004491, AP000113, AP000045, AC016025, AL031311, AC005899, AL050318, AC004671, AC005037, AC008115, U91323, AC007676, AP000251, AC005088, AC004821, AC006023, AC005808, AP000159, AP000017, Z98200, AC004999, AC005632, AC006441, L44140, AP000030, U95742, AF196779, AC006430, AL122020, AC006512, AC007216, AP000553, AF196972, AL031666, AC005823, AC007685, AF053356, AL139054, AC005971, AL031680, AC007066, AC004890, AC006080, AP000502, AC004913, AL049761, AC004685, AL121653, AC007390, AC006285, D87675, AC007226, AC006449, AL022318, AC007899, AL133312, AF111169, AL049869, AC019014, AC006088, AC005409, AC004686, AC009247, L78810, AL133448, AC005736, AC004019, AC004673, AC005837, AC005755, AC002395, AP000252, AC002470, U29953, AJ003147, AL133163, AP000248, AL034553, AC004526, AC005081, AC002369, AL049759, AC005624, AC004033, AL034429, AL008582, AC002301, AF117829, AP000557, AP000555, AC005280, AC008033, U47924, AL031736, AF165926, AC004996, AC009044, AP000692, AC020663, AC016026, AL035587, AL022323, AC007308, AC004478, Z83840, AC006965, AC005089, AC002115, AF196969, AC006254, Z83844, AC005488, AC005682, AC004884, AF003626, AL034555, AL035422, AC004893, AC003046, M89651, Z97056, AC002565, AC006165, AC006101, AC005057, AP000008, Z98884, AC002425, AP000031, AC004895, AF030453, AL133246, AL031447, AP000359, AL035458, AC007731, AC012384, AC002544, AL117258, AC006126, AC005500, Z85986, AC006241, U80017, AC005841, AL121655, AB023051, Z84469, AC005696, AC006480, Z83826, AC005231, AC005291, and AL096701.
					AC004706.
HNGCO15	7959	494338	1 - 375	15 - 389	H26664, and H26870.
HNGCG39	7960	704547	1 - 532	15 - 546	AL284640, AL046609, AL963720, AL431303, AL754955, AA581903, AL281881, AW303196, AW274349, AL334443, AL042853, AW301350, AL046205, AL801482, AL138265, AL041690, AL042420, AL270117, AL119691, AW193265, AA720702, AL890348, AL754336, AL037683, AA469451, AL708009, AL138455, AW327868, AA521399, AL345654, AA521323, AW021583, AA491814, AL110770, AA680243, AL457397, AL613280, AW265385, AA490183, AA126450, AW069227, AL149478, AA468131, AA877817, AW439558, AW268300, AL732120, AA394271,
HNGCE81	7961	961700	1 - 1702	15 - 1716	

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HNGCE40	7962	860699	1 - 731	15 - 745	AW302048, AL039187, AA230155, AI188049, AI821382, AA730635, AA558404, T07225, AI279417, AI567391, D58782, AA664604, AI536625, H48768, AA878140, AA381762, AA780933, AI445914, AW167154, AI096738, F32710, AA516047, R92640, AL120343, F31619, AA846923, AA448838, AA604843, AI079423, AW117740, AA613627, AI821044, AI754291, AA297789, AI244127, AA630854, AL046746, AI915081, AW021917, AW327852, AA657835, AC004552, AC002551, AL109952, AL109985, AB000658, AL139054, AL049780, AL049759, U91326, AJ251973, AC005808, AC002563, AC006530, AC005962, AC007564, Z95152, AC004526, AL031311, AL049540, AC005409, Z83845, AF130343, AC005690, U95742, Z95115, AC007216, AC004757, AC005209, AL049777, AL031666, AF064858, AC005701, AC004805, AC005747, AC002302, AC005304, AL133445, AL022163, AC007225, AC002039, U85195, AC003108, AC005184, AL049712, U91325, AJ003147, AC002990, AL022323, AC008012, AC006441, Y10196, AL031657, AC000353, AF001549, AC005913, AC002119, AC005971, AC006958, AL035658, AC004999, AC006360, AC006515, U95743, AL034402, AC010077, Z99127, AC005902, AC005082, AC003101, AP000557, AC006312, AC002365, AC003971, AC005274, AC007285, Z93929, AC002301, U80460, AC003982, AL121657, AC005911, AC006445, AC004913, AL031286, AC003665, AL031433, AC005339, AC002544, AC010205, AC004099, Z84469, AL109627, AC012384, AC005288, AC007191, AC005291, Z98050, AL049776, AL080243, AL023803, AC007066, AC005257, AC002091, AC020663, AL022067, AL031431, AL121754, AC004941, AL031283, AL050318, Z93020, AL033392, AL133238, AF111168, AC005670, AC007773, AC008115, AC002430, AC005330, AL022329, AC005919, AC004216, AL050317, AC007358, AC007536, AC008085, AL109984, AC002350, AL035588, AF001548, AL096712, AC007384, AL096701, AC004813, AC007731, AC004887, AC002457, AL021546, AC005500, AC016830, AL133355, AP000104, AC005011, AC006120, AC005666, AC005531, AP000509, AF165926, Z84480, AC006487, Z83844, AL031276, AC005859, AC005884, AC005527, AL078638, AC005726, AL035450, AC004491, AC004185, AL035685, AF031078, AC004148, AL079340, AC002465, AC002480, Z84466, AL033522, AC005057, AC002377, AC002477, AC004605, AL133247, AC004859, AC003688, AL035684, AF134726, AL022322, AC006947, AL135744, AC007537, AC007011, AC006138, AL049539, AC008149,

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HNGCC02	7963	638114	1 - 554	15 - 568	AW028400, AI963720, F36273, AL138265, AI368745, AI284640, AI679782, AL041690, AL046409, AA581903, AI708009, AA610491, AL042753, AI085719, AW162049, AI929531, AL138455, AI951889, AI956131, AI421841, AA469451, AI431303, AI963095, AI860020, AI357551, AI281881, AI962050, AW193265, AI110770, AI143242, AI340453, AI951928, AI718446, AL119691, AW303196, AI061334, AA507547, AA713815, AI814735, AA594215, AW302013, AL048925, AW103758, AI345654, AI754658, AA513141, AW301350, AW438643, AI305766, AW406659, AI358343, AL120269, AI350211, AI889781, AW088202, AW029038, AI053672, AA491814, AW247819, AI801600, AI613280, AA515224, AW407578, AI688846, AI590958, AI270117, AW274349, AI669453, AW406755, AW193432, AI344844, AI610159, AI287485, AI471481, AI590689, AW276827, AI912322, AI341664, AI375710, AI567076, AI358229, AI570261, AI289067, AA491284, AW261871, AW169537, AI696962, AA482711, AA652764, AI801591, AW089927, AW102955, AI801482, AI754336, AI291124, AI339850, AA127353, AI281903, AI679132, AI732186, AL040130, AI821271, AI038785, AA584082, AI192631, AI928790, AI049722, AI358501, AI037683, AW419262, AI345681, AA908687, AI345675, AW238278, AI291268, AL042853, AI628288, AW327868, AI567674, AI635274, AA598586, AI619997, AI865905, AA917683, AI859742, AA164251, AI709365, AI367975, AW338086, AI473943, AA521323, AA601270, AI537955, AW265393, AI339440, AI287528, AI890348, AA714453, F29989, AI475569, AI799642, AA977743, AW104748, AA579063, W95841, AI610607, AW162288, AW276932, AI358571, AI469172, AI376100, AI921649, AA490183, AW166815, AW085740, AA521399, AI564496, AW148792, AI697208, AW193609, AW304584, AI871225, AI696793, AW088616, AA133986, AI564185, AL079645, AI366729, AI676218, AW265009, AI824562, AI623720, AI499181, AW080134, AA846935, AI937850, AI674873, AA074130, AI365988, AA649642, AA178953, AA665330, AA192740, AW088058, AI917271, AA502155, AW272758, AW057877, AL042420, AW062724, AA350859, AA179944, AW340844, AI307201, AI282832, AI439210, AI053606, AI151261, AI921188, AA847499, N53150, AI521679, AI445582, AI633025, AI744995, AI017024, AA594145, AL119984, AA747276, AR036572, U91328, AC004859, AL049569, AC006004, AL021546, AP000966, U91323, AC006125, AC000052, AC008124, AC005071, AC004019, Z98941, AF129756, AC005291, AF001549, AC004884, AC004020, AC003101, AC005846, AC005768, AL031848,

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HNGBW07	7964	953894	1 - 425	15 - 439	AA779260, and AC004895.
HNGBS77	7965	494334	1 - 524	15 - 538	
HNGBP42	7966	574401	1 - 401	15 - 415	
HNGBO01	7967	921413	1 - 132	15 - 146	AL039463, and Z99716.
HNGBN12	7968	920949	1 - 386	15 - 400	AI147419, AI343975, AI400827, AW379863, AA310626, AW379864, AA325281, AI792990, R83498, AA349776, R87384, R84539, AA053628, AL045700, AL078621, AL137714, and Z96199.
HNGBL40	7969	880778	1 - 343	15 - 357	AA782358.

HNGBF25	7970	678767	1 - 584	15 - 598	AA054162, and AF130342.
HNGAZ70	7971	757413	1 - 345	15 - 359	R34132, and AL048966.
HNGAZ56	7972	733631	1 - 467	15 - 481	AI885390, N64652, AI694923, AA447143, W56786, W56564, AP001053, and AP001052.
HNGAZ08	7973	959977	1 - 422	15 - 436	AI221476, and AA825395.
HNGAX93	7974	792525	1 - 403	15 - 417	W87440, and AC006511.
HNGAW50	7975	723632	1 - 530	15 - 544	R97185, H47494, AI806978, AI052640, AI218923, and Z94721.
HNGAV20	7976	669901	1 - 420	15 - 434	H94026, H63237, H94115, H63315, and AI524673.
HNGAR02	7977	920736	1 - 552	15 - 566	AA954152, AA584702, AA585098, T18597, AA585325, Z32822, R45895, R29657, D53161, D61185, AA585101, Z32887, D57491, D59751, C15406, R28735, R29445, AI557740, C15069, AI541365, AI525316, AI557262, R28892, AI557864, AI541356, R28965, Z28355, AA585155, Z33559, AI526078, AI526140, AI525500, AA170832, AA585378, D54897, AA585439, D60765, D60844, D59436, R29218, AI557718, AI557727, AI541517, AI546999, AI557731, AI535639, AA585329, D51433, R28967, R28895, D54850, AI541205, AI541535, AI546971, AI526184, AI525556, C16294, C16315, AA283326, AI541383, D55233, AI546875, AI547250, AI526016, AI540903, AI557763, AI547039, D61254, D59458, D53447, AI557734, AI541523, AI557084, AA585476, C16292, C15120, C15762, D52835, AI557809, D53472, AI557807, AI557787, AI541346, C16300, AI541013, C16293, Z36724, AI525306, AA585356, C16305, C15737, AI541374, AI541034, AI525339, AI546831, AI547202, AI557533, AI557408, D60730, AI557758, AI546945, AI525431, C16296, AI526117, AI526191, AI557155, AI547196, AI526194, AI535660, AI557602, AA585430, AI526112, R29179, AI526024, Z30131, AI525320, D57186, AI546921, AI540974, AI541307, AI526109, AI546996, AI541321, AI557852, AI540967, AI546891, AI547006, AI525856, AI557279, AI526158, AI557808, AI546829, AI546901, AI557317, AI536138, C14208, AI525168, AI526146, AI541422, R29262, AA585453, AI526195, AI541402, R29172, AI541492, AI526113, AI541515, C16290, AI557264, R29177, AI557799, AI541527, AI557039, AI525114, AI557810, AA585389, AI556967, AI541516, AI541423, AI526176, T19407, AI547189, AI525656, AI557041, AI526073, AI524904, AI541027, AI547137, C14210, AI525076, AI557786, T41289, AA514191, AI541510, AI526205, AI546954, AI526180, D61060, AA585434, AI540944, AI525332, AI525286, AI526169, AI526187, AI541506, AI541415, AI557238, T41329, AA585420, AI524891, AA585117, AA585440, C14322, AJ239433, AI540920, AI546828, AI557796, AI524890, AI557785, AI541345, C14391, AI557285, AI546855, AA174170, AI547158, C14723, AI557082, AI547026, AI540882, AI541075, AI526026, AI540928, AI046024, AI541514, D51413, AI547122, AI546841, AI557802, AI541017, AI547138, AI541390, AI526125, AR062871, A25909, AR038855, X82786, Y09813, X76012, AR031358, AR031365, AJ244005, Y16359, AF082186, AR038762, Z32836, AR054723, X81969, D13509, DJ244004, A20702, AR062872, AR062873, A20700, A43189, A43188, AJ244006, AJ243486, AR017826, D78345, AR017907, AC005913, AJ244003, AR003381, Z30183, AF213384, A62298, AR050070, A82595, A82593, AF006072, A98420, A98423, A98432, A98436, A98417, A98427, X82834, and

HNGAQ75	7978	766512	1 - 167	15 - 181	L36913. N83807, AA584125, AA339692, AA377189, AA829154, AA828739, AI590593, AC005484, AC004106, AL031281, AL033392, AL034554, AD000813, Z95114, U95739, AC007050, AF205588, AC003103, AC007786, AC005375, AP000556, AC009405, AC006236, AL021707, AL049636, AC005529, AF019413, AP000502, AC000120, AB026898, AC004152, Z98946, AC004966, AF001548, AP000092, U91321, AC003664, AC005353, AC002365, AC007371, AP000237, and AF107258.
HNGAQ73	7979	574649	1 - 277	15 - 291	
HNGAQ49	7980	574652	1 - 159	15 - 173	Z95126.
HNGAQ38	7981	574658	1 - 113	15 - 127	
HNGAQ37	7982	575492	1 - 136	15 - 150	AI418661, AA452325, T07327, F31867, AA632556, AA748826, AA626595, AA904211, AA298362, W63553, AA211734, AA581247, AW023111, AL370170, AA069255, AA489327, AI758424, AA496724, AA084609, H73550, W96277, AI973173, H90878, AA489330, AW130350, AA719847, AI567391, AA020873, F05830, AA984857, H90114, T62543, AA837771, AA481887, AW419389, AA668587, R99144, F23294, AA683069, AA443587, AI742168, AA568314, AI446478, T83057, AA579188, R93858, AA021429, AI431513, AA018588, AA021428, AI736488, AI300818, AI310992, N73021, AL037533, H84975, AA441810, AI889579, AA018777, AA019939, AA479877, AA019872, AA610789, F16671, AI821273, AA714073, H07953, AI160786, AA722505, AI583291, AW151935, AA523695, AW408596, AA113273, AA229422, AI198718, AA612578, AA086435, AA936718, AA808036, AA091982, F31811, R67701, AA613399, AI368732, AA452887, AA577783, AA642809, AI733717, AA302661, AA668905, AA076575, AA226357, AA315361, AA111870, AA320105, AA226356, AI271762, AI858889, AI680547, AA243976, AA640310, AA324288, AA157837, AA425924, H58354, R64640, N27615, AA502193, H90845, AA630923, AW162303, AA583386, AW029269, AW162047, T65895, AW161786, AW019964, AA579281, AL135363, AA608570, AA205436, AA847502, Z84469, AL121915, AC002477, AC003010, AC006480, AC005971, AC005947, AC006275, AC004257, AL109952, AC004736, AC005208, AL035078, AP000501, Z85996, AP000692, AC004076, AL035691, AC003109, AC007546, AL050332, AC004890, AC005225, AC005243, AF001552, Y11107, AP000362, AC005366, AC005009, AC004814, AL118516, AL024474, AL035530, AC004408, AF196969, AL030995, AL035071, AL023283, AC005378, AL035687, AC004590, AC000029, AC002432, AC004859, AL009181, AC005039, AP000553, AC005014, AC007057, AL049872, AL022323, AC005899, AC005013, AC007363, AC008009, AC005736, AC006017, AC005828, M13792, AF053356, I34294, AC005837, AC005921, AL035086, AL023878, AB020864, Z93241, AC004878, AC007055, AP000345, AC003007, AC007199, AC004796, AC006050, AC006390, AC005031, AL031846, AF001549, AC005527, AC004050, AL121603, AL031283, AC004381, AC005207, AL020995, AC004999, U80017, AB020690, AF073485, AC005190, AF141309, AP000319, U51280, AC004789, AC004780,

					AC002985, AC000075, AF037338, AC005790, AC000084, AC005222, AL078611, AC002491, AL049576, Z83847, AC005355, AL022333, Z98885, U82668, AL117351, AL109798, AL023096, AL022322, AP000687, AP000167, AP000052, AP000120, AP000142, AC005049, AL021155, AC002119, AC004685, AL049795, AC004823, AL031680, AL031291, AP000090, AC006088, AC004518, AL033521, AC002418, AC004525, AC002303, AC004686, AC004967, AF139813, AF001548, Z83843, AC007388, AL031427, AC007676, U52111, AC005184, AL133353, AC007227, AC007014, AL121769, U91323, AL035405, AC005082, AL022721, AP000688, AC004386, AC006305, AC006582, AC007537, AC005041, AL135744, AL049869, AC004228, AC002365, AC008038, AC007240, AC003101, AL031733, AF111168, AC001228, AB026898, D87675, AL132992, AC005332, AL008725, AL031297, Z92547, AP001053, AC005220, AC002310, AC005529, AC006511, AC005625, AL133245, AC007446, AC005015, AL133163, AF111169, AC007421, AL121923, AP000689, AB003151, AL080243, AL049631, AL031447, AC005578, AL031276, AC004874, AC006013, AC006196, AC005228, AC003029, AC002301, AL109853, Z95115, AL022396, AL132777, AC004813, AC005914, AC004694, AP000358, AP000359, AC003071, AC006961, AP000121, AP000053, AP000168, U95739, AC004905, AC004526, Z82174, AL133448, AB020866, AC009247, Z93017, AL021939, Z63709, Z83820, AC000052, AL049829, AL049569, AC004019, AC004024, X84664, AL008715, AL035659, AL022314, AF191687, Z82203, D86960, AL109865, U63630, AP000310, AC006154, AL096702, and AP000272.
HNGAQ14	7983	574660	1 - 130	15 - 144	AC005815.
HNGAQ02	7984	920756	1 - 206	15 - 220	
HNGAQ01	7985	921434	1 - 148	15 - 162	N23637, AA630173, AA486530, AA680247, AA161476, AA160638, AA166686, AA668670, T58393, U13369, and X68195.
HNGAP69	7986	513808	1 - 653	15 - 667	AC005562.
HNGAM31	7987	426200	1 - 487	15 - 501	AA661948, AA665330, AI151261, AA501784, AL138265, AW023672, AI287964, AI282832, AW103415, AW271904, AI343137, AI245679, F17518, AI707788, H62778, AA491814, AI049996, AI028540, H88666, AI537955, AI304929, AI061296, AW080134, AA482896, AA603323, AA340747, AA077776, AI358343, AW088202, AI432103, AW276435, AW021583, AI679045, H84359, AW104748, AW079809, AA076408, AA342562, F17700, R92640, AW029038, F29989, T40848, AI446464, R19647, AA318652, AA569190, AI625244, AA747276, AA557686, AI177061, AA708352, AA747480, AA364224, AA878149, AA502050, AI570261, AA569182, AI754661, AI345681, AI345675, AA448375, AA448231, AA452563, AI962050, AA469451, AA843450, AA747472, AI510838, AI929531, F28765, AI339850, F32893, AI358229, AA229785, AA515051, AA481363, AI049649, AI271762, AA452744, AW301350, AW303196, AW274349, AA482681, F29198, AA228420, AL045077, AA601680, AA679493, AI791390, AI216054, AA730635, AI623720, AW406755, AI251002, AA169194, AA405453, AA482711, AA357307, AW167154, AA449088, AA367986, AA488746, AW151896, AA583244, AI061313,

				AA320852, AA503258, AJ362650, AI049722, AI432814, AA635067, AI270476, AW337454, AI754291, AA564925, AI445498, AC005971, AF055066, AC005225, AC004193, AJ003147, AL121658, AL096791, AC007055, AC007371, AL121603, AC006001, AF053356, AC005081, AP000112, AL121852, U80017, AC005412, AL109758, AC005324, AC005932, AL049743, AL135744, U92032, AL031286, AC006014, AL022311, AF045555, U91321, AC005399, AP000513, AC005031, AC004099, AL008582, AC009247, AL132777, AC005527, AC002288, AC007899, AC006960, AC006254, AC005516, AL008635, AC005821, AC003102, AP000044, AL139054, AC002400, AC006006, AC004821, AC006023, AL021918, AC005585, AC004955, AL117258, AC005529, AC004134, AC000025, AC005057, AF064866, AC005678, AC002545, AC004150, AC005808, AL049775, AC004841, AC005414, AC006441, AC004033, AC007227, Z98745, AL109627, AC003101, AL136501, AC004534, Z99128, AL132712, AB020867, AC005037, AL109628, AC004963, AD000092, AL080317, AL022476, AC008169, AL117354, AP000030, AC007878, AL035494, AP000884, AL132992, AC006088, AC011594, U07000, U95740, D87675, AP000208, AC005736, AJ246003, AC003109, AL049539, AC007011, Z84466, AC005255, AL049776, AC009516, AL109654, AP000247, AL110502, AL009181, AF123462, AC004125, AC005666, AC007226, AC007666, AC005488, AP000212, Z97832, AL049745, AC000052, AC006333, AP000355, AC008044, AF064861, AC005484, AC005694, AC005221, U95742, AC004895, AC004263, AL050318, AC004491, Z81008, AP000688, AL049872, AC005914, AL121655, AC004974, AP000959, Z92542, AL096701, U63721, AP000505, AC006559, AC004687, AL080243, AC005231, AL035699, AC004492, AC004526, AL034420, AC004050, AP000694, AC006344, AC006285, Z95114, AL035658, AC007546, AC005753, AC004887, AL031577, AF196779, AL078474, AC003665, AC002544, AC008101, AC002126, AL121595, AC005520, Z95126, AP000215, AC005332, Z68870, L78833, Z99716, AL021391, AC004447, AC016831, AC004796, AL035405, AC007308, AL049869, AC016830, AL021393, AP000045, AC002301, AC009479, AC004814, AC006597, AC005899, AL049830, AC002306, AC004832, AF001549, AC002351, AC007216, AL031587, AL080276, AC002067, AL109984, AC005901, AC005237, AC008018, AC009248, AL049795, AC000120, AC005996, AC005291, AC005006, AL023553, AC005500, AP000512, AC016025, AL031591, AL008639, AC007066, AL035587, Z85987, AC005682, AP000552, AF111168, AC006132, AC007298, AC002565, AC003029, AC005409, AP000134, AL078593, AL031848, Z98048, AP000047, AC006141, Z84487, AL034417, AP0005104, AP000553, AL049780, AL035249, AC005209, AP000130, Z93783, AC012627, AC005837, AL031680, Z94721, AC006449, AP000692, AP000477, AC005924, and AR036572.
HNGAJ78	7988	773425	1 - 900	15 - 914
HNGAD20	7989	890591	1 - 349	15 - 363
HNFJ167	7990	751605	1 - 486	15 - 500
HNFJ168	7991	959428	1 - 664	15 - 678
				AC004465.
				T89724.
				H78418, AI208043, H68012, T87102, N77399, AA744206, AA713765, H93975, H58585,

					AI223968, AA569597, AA601186, AI263494, AC008116, AF190884, AP000564, AF030453, AL031311, AC005088, AF068624, AL035106, AP000151, AC004197, AL023913, AC003007, AB003151, AC011718, AC008132, AC008079, Z93241, AP000010, AC005632, AC002407, AC004491, AP000454, AC007546, AC005003, AC005846, AC005530, AB023048, AC009247, AP000298, AC002115, AC004263, Z95703, Z83821, AL020991, AC006101, AF039907, AC006987, M59199, Z84487, AL135960, AJ131016, AC004985, AL109952, AC004223, Y10196, AC005018, AC002426, U78027, AC000387, AL031577, D84394, AC005366, AC007358, AP000044, AC004929, AC004883, AC007156, AP000472, AC005291, AP000347, AC007748, AC004216, AC007565, AP000511, AC005225, AC003037, AC005913, Z97053, AC007350, AC004622, AC007766, AL035415, AP000350, U91326, AC005562, Z99943, AP000116, AC006285, Z84477, U73643, AL049569, Z99716, AC005399, AL035587, AC006948, AC009516, AC004914, AC009263, AC006572, U47924, AC006509, AC016025, AC007388, AC000003, AF187320, AP000552, AC005568, and AC007057.
HNFY76	7992	767681	1 - 341	15 - 355	W88982, AA741151, AI699945, AI915838, AI806991, AI911962, and AL022328.
HNFY53	7993	467056	1 - 436	15 - 450	AA021619.
HNFY14	7994	658129	1 - 253	15 - 267	AW363863, AI741868, AA181596, AW450052, and AF117754.
HNFY17	7995	429602	1 - 559	15 - 573	AC003006.
HNFY07	7996	953330	1 - 512	15 - 526	H67460.
HNFY11	7997	966347	1 - 421	15 - 435	AI475658, AW300535, AA769413, AI970294, AI962597, AI262866, AI288806, AI264118, AI056197, AI221947, AI480037, AI818548, AI803669, AI092753, AI379065, AW450384, AI140316, AI242596, AI436296, AI199008, AI784541, AI819414, AA994821, AA242747, AA431259, AI814761, AA577250, AI275187, AA909652, AA417974, AA243870, AA862672, AA746639, AW340129, AA633304, AA878919, H23830, AA004808, AA830716, AI027827, AA947663, AA948421, AW025951, and AF132948.
HNFY59	7998	739358	1 - 533	15 - 547	T89075.
HNFY59	7999	951005	1 - 1111	15 - 1125	W96277, AA846942, AA489978, H01110, AA426451, AL048901, AW151018, AA569179, AA579399, AW408767, AA020873, AL022323, AC005244, AC004832, AC002511, AC004876, AC007308, AL031577, AC003101, AC005057, AC016027, AC016830, AP000695, AL096702, AC005562, AC005355, Z85987, AP000099, AL031985, Z94056, AC004647, AL035423, AC006388, AF109907, AC002310, AC002425, AC006958, AL035684, U07562, AL109827, U62631, AF038458, AC005971, AL078634, AL133243, AC005736, AC007193, AC003108, AP000245, AP000036, AC004851, AL031295, AL031228, Z84484, AC005962, AP000033, AP000509, AP000112, AJ003147, AC002996, AC007191, AC004792, AC004381, L78810, AC005274, AP000689, AL031591, AC005378, AC005412, AC004972, AC004963, AL031291, AC007041, AL133246, AC006511, AC005544, AC002477, AC006441, AL031255, AC005529, AP000008, AC005940, AP000501, AL096701, AC005899, AC005225, AL031774, U62293, U63721, AC004966, AC007917, AL021977, AC006360, Z93016, AC020663, Z98304,



HNFX58	8000	735299	1 - 660	15 - 674	AC005778, AC005920, AC009178, AF134726, AC005039, AL031846, AL031283, AC008372, AP000260, AC006040, AL031230, AC007790, AP000167, AP000052, AP000120, AF088219, AC005525, AC006430, and AC004675.
HNFX96	8001	716913	1 - 923	15 - 937	N73263.
					AA256102, R24951, R14228, AA256037, N80330, A1740979, AA781179, AA991559, AA757102, AI262320, AA770189, AA398687, AA621291, AA885058, AI381911, AA831699, AI026903, AI698917, AW338905, AI479899, AL040709, and AC005263.
HNFXU61	8002	741901	1 - 349	15 - 363	AC006275.
HNFXR56	8003	733297	1 - 433	15 - 447	
HNFXA09	8004	961165	1 - 450	15 - 464	AA206774.
HNFXS84	8005	783199	1 - 379	15 - 393	H83638, R09824, R85639, R84674, and H83639.
HNFXJ65	8006	574598	1 - 81	15 - 95	
HNFXJ42	8007	526844	1 - 105	15 - 119	
HNFXJ17	8008	574597	1 - 170	15 - 184	
HNFXH36	8009	574601	1 - 185	15 - 199	
HNFXH32	8010	574605	1 - 227	15 - 241	
HNFXG80	8011	574602	1 - 59	15 - 73	
HNFXG18	8012	574608	1 - 261	15 - 275	N98823.
HNFXG06	8013	936086	1 - 282	15 - 296	AL284583, AL008629, Z31001, AB023051, AC005225, AL133245, AL034549, AC005911, AC004895, AC006480, AC006023, AL020993, AP000512, and AP000345.
HNFXG88	8014	522077	1 - 314	15 - 328	AA730916, AL048002, AA605266, AA748140, AI246884, AA229034, AA229080, AA187277, AI285453, AA181070, AA991792, AW410715, AI471827, AA670456, AA155784, AA226142, AA452998, AW409893, N23919, T71765, AA659832, AL035086, AC005207, AC005482, AL049712, AF001549, AL035555, AC004815, AC005157, AC002470, AC016027, AC016830, AP000510, AL033533, AL049843, AP000555, AP000031, AC007382, AL118510, AC006359, AC006312, AC004491, AR036572, U91328, AL109963, AL049749, AF165926, AC007308, AC004821, AL049869, D16561, AC004019, AF111168, AC005295, AC012384, AP001053, AC005078, AL008721, AC004905, AC000353, AL022069, Y10196, AL035400, AC007376, AC007637, AF024533, AC002477, AC004587, AC006450, AL133448, AC005225, AC004560, AC006111, AC005531, AC002425, AC009294, AC006449, AC005049, AL009181, AP000692, AC004583, Z82194, AC007242, AC004685, AC004878, AC004148, AC005071, AC002544, AC005484, AP000952, AC002480, AC002394, AC002040, L44140, AC005914, AL139054, AF196972, AC006480, AP000691, AC010169, Z82206, AC005030, AL020995, AC005940, AC007226, AL031584, AL109628, AC007842, AL022165, Z84480, AL035209, Z97989, AL031311, AC005158, AC004938, AL035683, AL096801, AC006505, Z95115, AL021808, AC004383, Z93023, AC005520, AL031277, and AL022238.

HNFGF66	8015	860896	1 - 358	15 - 372	AW292971, AA993724, and AL049557.
HNFGF52	8016	522293	1 - 346	15 - 360	
HNFGF37	8017	574609	1 - 210	15 - 224	AI537253, AF009040, AF009039, AB020717, AP000276, AP000037, AP000105, AJ006855, U45479, D85682, and AP000275.
HNFGF80	8018	571306	1 - 231	15 - 245	
HNFGF41	8019	504165	1 - 140	15 - 154	AW402309, AA351072, and AB007945.
HNFGF81	8020	778250	1 - 531	15 - 545	T94000, T93980, AI820713, AI732292, AA912299, AB014088, AC004190, and AP000516.
HNFGA92	8021	790617	1 - 413	15 - 427	W21191, AA032052, and AA436218.
HNFGA85	8022	521880	1 - 408	15 - 422	AA130623, T73021, T60029, AA226532, AI354847, AI520748, AA209436, AI567391, AI025355, AI018726, AI929298, AI929825, AW157180, AI679294, AW132065, H63515, H62137, H69577, H53255, AA653291, AA626840, AI859618, W32993, H94979, F23235, F33184, R66121, AA418696, AI671077, AA584098, AA418757, AI679871, N76251, AA468974, AA230025, AA468371, AA228368, AA224889, AA468505, AA228269, AA228442, AA224816, AA757621, AA467943, AA314404, AA425924, AA614254, R94909, AA487720, AW275763, AW084431, T05617, AL047480, AA126975, AI469125, AA211464, AW023975, AI683426, AA573214, Z82215, AC005231, AC002288, AC005203, AF146367, AC000379, AF124523, AC006599, AC002312, AF118808, AP000009, AP001052, Z97196, Z95115, AF195658, AC005527, AC006530, AC000025, AC006111, AC005529, AL035423, AL050318, AC006561, AL049697, AC004841, AC002126, AC005325, AL049780, AF091512, AL009175, AC005015, AC006536, Z93023, Z77249, AC007216, AC005225, AC003689, AC004887, AC004966, AC004663, U91318, Z83838, AC004913, AJ003147, AP000503, AC005520, AP000505, AC005971, AC004036, AC004812, AC007688, AC009247, AC000052, AC005081, AF001548, AC005180, AC007387, AF050154, AJ006996, AL022318, AC005545, AF031076, AC008282, AC007566, Z84484, AF134726, AL031680, AC007666, AC007934, AC002985, AC016831, AL035587, AC005684, AC007308, AC005193, AC004678, Z98044, AL031311, AC005011, AC006511, AC002045, AF045555, AC005255, AL132716, AC005839, AC005736, AL096766, AP000553, AP000210, AP000132, AP000501, AC009516, AC002039, AL139054, Z97630, Z93244, AC005482, AP000048, AL031589, AL050332, AC005914, AC005028, AC016025, AC004539, Z99128, U07561, AC005578, AC005288, AF053356, U80017, AP000141, AC005899, AP000065, AL034420, AC003982, AC002551, Z82173, AC002369, AL021878, AL031774, AF031078, AL049843, AC005372, AC005284, AP000309, AL049869, AB023052, Z82190, AL031846, AC006571, AF030876, AL022330, AC005562, AL021937, Y14768, AC007386, AC005046, AC002470, AL132987, AC004139, AC003957, AC001036, AC006512, AL008582, AC004674, AC004262, AC005089, AL049793, AL049760, AL132712, AC004084, AF196779, Z94044, AC007551, AC004447, U91323, AL022476, AC005037, Z82178, AL021366, AC006084, AC004895, U95090, AC004983, AC006487, AL022721, AL031005, AC000035, AC005821, AC006130, AC007226, AC006468, AC004152, AC004263, AL031282, AC004686, AC002994,

						U47924, AC007993, AL035458, AP000555, AL078581, AL035658, AL031123, AL078638, AC005531, AC005291, U62317, AC005412, AL096791, AL133448, AD000092, AC000085, AC005391, U73737, AC020663, AC006538, AC007225, AC004682, AP000462, AP000689, AL022313, AC005332, AC005952, AL121658, Z95152, AL034423, AC000039, AL080243, Z49155, AC005793, AC002350, AC010582, Z83843, AP000031, AL121653, AC004032, and AP001054.
HNFAS7	8023	571305	1 - 208		15 - 222	
HNFU64	8024	578096	1 - 278		15 - 292	H81542.
HNF38	8025	45273	1 - 732		15 - 746	
HNFQ29	8026	860905	1 - 392		15 - 406	AA954660.
HNFQ20	8027	836239	1 - 484		15 - 498	H30642, and AL049552.
HNF75	8028	786899	1 - 410		15 - 424	R71423, AA649995, AA548429, H00226, AA442374, AW363180, AI806931, W35309, R77144, W92109, AA628013, N39838, and H27628.
HNF05	8029	932432	1 - 145		15 - 159	N56475.
HNF75	8030	767453	1 - 220		15 - 234	AI884861, AA679353, AL047493, AA363027, R48980, AI537800, AA452843, AA910783, AI377396, AA541532, AA857812, AA376896, T08386, AI580979, AI037777, H38769, T90477, AI362442, AA253451, AI419337, AA290802, AI361090, AI570805, AA831408, H24953, AA295893, AA058312, AI280574, AI421950, AA295899, AI049630, AA599080, AA769141, AW026305, AI348467, AW161459, AA219349, T60940, AW161879, AI803767, AI191343, AW268329, AI003797, AA936548, AA746939, AA304790, AA669957, AW327555, AA528574, AW265688, AL120004, AI538363, AA528503, AA809125, AI289050, AI364568, AI284092, AA809089, AA313075, T56025, H65697, AA772704, F11421, T17332, AI334775, AA283081, T98915, AW363085, AA581317, AA650447, AA236867, AI689198, AI274697, AI469392, AI860021, AL038842, AL135383, AA890060, AW168510, AL008635, Z82097, AC007684, Z73417, AL035072, AC004859, AF196969, Z82182, AF003626, AC005004, AC002563, AP001059, AL109983, AF139813, AC004712, AL021155, AL023581, AC004770, AC004228, Z82248, AL031590, AC007450, D86995, AC005280, AF024534, AC008150, AC005519, AL021453, AC002454, AL109623, AL031666, AJ006216, AP000264, AP000035, AP000100, AL050318, AC006080, AF029308, AC004616, AC004655, AC006976, Z82250, AL133245, AL132712, AC005520, AL109847, AC007011, AL021917, AC005779, AC002404, AC005690, AC002350, V00596, AC004185, M1762, U15177, AC004656, AL035588, AC006050, AC005873, AC007193, AC005300, AC004972, AL049745, AP000962, AC002982, AC004088, AF024533, AC005086, AC011456, AC012085, AC007686, AF111169, AF035968, AC000082, AC003029, AC004673, AC005071, AC007160, AL023876, AC002094, AC007860, AC006946, AC007880, AC005335, AC006505, AL021977, AC006347, AC004854, AL031659, AF124730, AL008631, AC002073, AL022318, AB014079, AC006139, AC004927, AL117342, AP000514, AL117354, AC004132, AL079342, AC006115, AL133500, AC006512, AC007934, AL022334, AC005316.

HNFEV24	8031	677114	1 - 363	15 - 377	Z95329, AL034402, AP000513, AC007277, AL031000, AC003682, AC005666, AL022165, Z85996, AC000378, AC005219, AC007917, Z98304, AL035249, AL031283, AC005041, AC000392, AC003002, Z98743, Z98043, Z95115, AC004841, Z85986, AC004966, AC005578, AC006948, AC005512, AC007030, AC004491, AL096791, AC004771, AP000128, AP000206, AL031672, AC004408, Z82194, AP000245, AP000553, AC007938, AC009516, AC002365, AC007308, AL021393, AC005081, AC004554, M19508, AL021391, AC005317, AL121748, AC005624, AC004785, AC005480, AL031595, AC005846, AC004891, AC006576, AL034417, AC004552, AP000352, AL133312, AL121652, AL034549, AC006372, S65785, AC002527, X55448, AC004797, AB012168, AC004534, AF134726, AC004149, Z95125, AC005593, AL035659, AC006146, AC006011, AL078638, AL049843, AC005828, D49685, M55987, X95887, AC003965, Z98882, Z73964, AF184110, Z98051, Z93096, AL117351, AP000502, AF019413, AL031735, AC003957, AL020997, AL021940, AC002432, Z84469, AC006059, AC005906, AL049839, AC004851, Z69706, AC002401, AC005355, AL022721, AC005884, AP000509, AC005053, AB014077, Z81010, AC004209, AC004611, AC005182, and AC007868.
HNFEV24	8031	677114	1 - 363	15 - 377	U82757, AL049692, AL049745, AC005764, and Z92542.
HNFEV24	8031	677114	1 - 363	15 - 377	H67644, AL079695, R15238, T26386, and R12358.
HNFEQ28	8033	685514	1 - 383	15 - 397	AA039447, AL765745, W27268, AL137465, and AF159447.
HNFEV24	8034	783211	1 - 479	15 - 493	H74104.
HNFEV02	8035	861004	1 - 878	15 - 892	
HNFCO90	8036	529966	1 - 156	15 - 170	AL022098.
HNFCO85	8037	529967	1 - 267	15 - 281	
HNFCO52	8038	518637	1 - 334	15 - 348	
HNFCO41	8039	529970	1 - 296	15 - 310	Z85987, and Z94161.
HNFCO37	8040	507312	1 - 841	15 - 855	Z55913.
HNFCO32	8041	529971	1 - 321	15 - 335	AA203114, AA001350, H70366, R00660, H83070, and R95157.
HNFCO22	8042	529973	1 - 146	15 - 160	
HNFCO25	8043	556464	1 - 380	15 - 394	N65923, and AF109907.
HNFBY08	8044	960222	1 - 347	15 - 361	R94859, H65499, and AC005920.
HNFBT45	8045	574972	1 - 521	15 - 535	AL031728.
HNFBQ02	8046	921029	1 - 412	15 - 426	AA019957.
HNFAF78	8047	601639	1 - 590	15 - 604	AC007225.
HNEDU66	8048	861030	1 - 391	15 - 405	AA971408.
HNEDR54	8049	730953	1 - 392	15 - 406	AA235166.
HNEDP86	8050	785736	1 - 426	15 - 440	AA251806, AW008517, and AL035530.
HNED077	8051	955894	1 - 498	15 - 512	AA513389, AL597937, W21995, AL1619825, AW304348, AA307643, AA247984, AW025299, AL738561, AL659244, AL161148, AL887436, AA192151, and D50922.

HNEDJ03	8052	967115	1 - 448	15 - 462	<p>AI923367, AI583218, AI373875, H99041, AA614659, AA701656, AA455317, AI624093, AI120931, AI051123, N27564, AW131426, AA745905, H97544, N33217, AW193312, AA036731, AI811692, AI435894, AI784586, AA788753, AI348194, N47754, AI890992, AA479068, AA601557, AI287545, AA894619, AI682609, AW058621, AW081918, AW168028, AI346563, AW168929, AI433476, AI923848, AI566456, AI186661, N22090, AA678000, AI245176, AI245198, AI272966, AI963008, AI298694, AI187073, AA150090, D62527, AI435647, AI770052, AI680189, AA812522, AI890986, AI185100, AA403052, FI1075, AI350680, AI866206, AI432046, AA514269, R20526, H46858, AI566594, R27302, R69930, AI143203, AW169284, AI080704, H18624, AI280761, AI697429, F36516, AI382360, AI472034, D61736, AI573004, AI888697, AI932870, AI355692, AA805532, H04179, AI355703, AA687849, R67586, N91144, N93493, AA757226, AI342620, R66707, AI298478, AW104101, AA150159, AI375753, AA968981, AI589126, AA381382, AA381400, AI401617, AI359209, N66889, R32649, R33334, AA381630, AW378387, AA381701, AA381636, AA904561, AA381643, H18598, AA381945, AA381644, R52479, N89744, R75976, AI263846, N56395, AA381602, AA381460, AA654417, AW152083, AA381275, AA167390, AA476343, AW051256, W81443, AA804381, C02214, AW057830, AI805033, AI075972, AI242237, AA347509, AW378359, AA284149, F31071, AA889282, AI679723, AI679152, AW378412, AA765452, AI216644, AA427526, H27061, R33333, AA909840, AI802150, R69882, R07700, R76807, AI915452, AA381605, AW002830, AI570298, N34507, N75875, AI280767, H18597, AA632567, AA844237, W04813, and AC004520.</p>
HNEDH59	8053	739533	1 - 515	15 - 529	R19732, R55864, H09860, R61075, R19557, and AB032971.
HNEDF15	8054	946986	1 - 1267	15 - 1281	AA573510.
HNEDD15	8055	812918	1 - 437	15 - 451	<p>AI635028, R81017, AA084609, AI923451, AI923458, AW168420, AI267269, AW088012, AI733856, AA427636, AA464739, AI953290, R44593, AA653139, AW238594, AI284640, AA704393, AI611569, AI611598, AA213959, R62710, AW188742, AA904211, AI249683, AI870453, AW270345, AI587467, AW265688, AI138329, Z83822, AC004242, AC005011, AC007066, AC005099, Z98044, AC004811, AC005412, AL049539, AC005280, AC007751, AC006441, AP000009, AL031228, AL022323, AP000510, AF129756, AP000030, AP000212, AP000134, AL139054, Z95114, Z97184, AL031311, AP000252, AL050341, AC005209, AF196969, AC006241, AL035086, AC005778, AC005529, AL109963, AB023048, AC005548, AC005694, Z83844, AC007421, AF205588, AC007371, AC006323, AL031666, AC005839, AC002544, AC005527, AP000065, AC004673, AP000556, Z98946, AC006509, AL121658, AP000552, AL035659, AC005632, AC004883, Y14768, AL035460, D87675, AC005231, AC004921, AC002375, AC005736, AP000331, AC005500, AC004805, AC007731, AL031284, AF196779, AP000172, AP000057, AL049795, AC005562, AC004815, AC006480, AP000125, AP000512, U85195, AL031846, AC007055, AP001136, AC004626, AL035405, AC004999, AL049761, AB023051, AC002476, AC006057, AC006511, AC006111, AC003029, AC000353,</p>

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HNECS71	8056	761415	1 - 351	15 - 365	T63576, W15491, AI149804, AI131519, AA843953, AW161793, AI092028, AA552204, AW136111, AI141347, AI185926, AA772103, AA035012, AI264527, AA620892, AA975679, AI292163, N22339, AA568942, AI698028, AW006799, N33511, N45217, AI338778, AI348018, AI184473, AI186835, AW162638, AI346238, N20265, AA121312, N32971, N22986, AI268696, AI687031, AA613050, W47402, AA738236, AI831927, AI581714, AI191389, AI207353, AI076913, AI031528, AA890278, H06229, AI354662, AI023013, AI146940, AI814446, AI523222, AA115499, AA609073, AI360917, AI285388, AA608567, AI246045, AA868240, AA508381, AA522726, N20264, AI932474, R76084, AA443103, AA460311, AI146531, F02954, AA149816, AI032190, AI368495, AA523767, R79965, AA159633, H96348, AA976176, AA782201, AW190870, AI208639, T90250, AI695863, AA715129, W52013, AA372891, AA079783, AA079671, AA804874, N91526, AA641601, AA662579, AA513828, AA115027, AA058638, Z21398, R76133, Z21400, and S82464.
HNECP28	8057	469521	1 - 535	15 - 549	T92707.
HNECN28	8058	558790	1 - 239	15 - 253	X82015, L32185, E12100, D38171, D50403, D50402, L38592, Z34916, AF005380, U70255, U55068, L13732, A45655, AF005379, U39614, U12862, U27105, A45644, L38593, A45643, and S79364.
HNECI41	8059	712607	1 - 487	15 - 501	W88808, and AC004782.
HNECD74	8060	470015	1 - 538	15 - 552	
HNEBY64	8061	514762	1 - 754	15 - 768	AA468319, AW078909, AA602906, AA622801, AA468466, AI917891, AA610491, AL047427, AW302909, AI744830, AI262909, AC002045, AC006468, AL031680, AP000350, AP000113, AC007546, AL035683, AL109798, Z97053, Z94721, AP000512, AL096761, AC004253,

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HNEBY10	8062	968455	1 - 490	15 - 504	AA932258.
HNEBN04	8063	927811	1 - 464	15 - 478	AA984174.
HNEBM59	8064	950732	1 - 480	15 - 494	AL121603.
HNEBM40	8065	868109	1 - 418	15 - 432	
HNEBJ95	8066	529572	1 - 188	15 - 202	
HNEBJ81	8067	529571	1 - 158	15 - 172	
HNEBJ67	8068	529573	1 - 113	15 - 127	
HNEBJ62	8069	861074	1 - 276	15 - 290	AI620676, AC004929, AC002996, AC005037, AP000240, AC003070, AL049779, AC006946, AC005295, and AL008718.
HNEBJ43	8070	529574	1 - 187	15 - 201	
HNEBJ31	8071	529577	1 - 321	15 - 335	
HNEBJ21	8072	529578	1 - 216	15 - 230	
HNEBJ10	8073	968440	1 - 267	15 - 281	AA826197, and Z99128.
HNEBJ09	8074	529579	1 - 158	15 - 172	AP000556, and AP000557.

HNEBJ07	8075	861072	1 - 350	15 - 364	N53565, AI701080, AW263784, AL041578, AL041530, AA490097, N64437, AW245179, AW090754, AI566408, N87410, F31619, AA348402, AA456422, AI364074, AA371642, AW408686, AW074022, AI924806, AA558857, R99934, AA569065, AW104748, AW408106, AA507991, AA078255, AW373604, AA287618, AA776211, AA639025, AW383357, AA317096, AI038597, AI568678, AA780386, AA586850, AA600126, AA156484, AL135074, AA483942, T65978, AA192888, AI370650, AC007358, AL021154, AC007917, AL031985, AP000344, AC006449, AC004655, AC007384, AC005099, AL109758, AC004185, Z83822, AC005821, AL035423, AC002430, AL049569, AC006530, AC002480, AC005017, Z85986, AC004526, AP000689, AP000509, AC005529, AL031778, AJ251973, Z94056, AB003151, AF003626, AL049589, AC006948, Z84480, AC002477, AC003977, AL031651, Z84469, AC002988, AC005255, AC002549, AC012627, AC002558, AC005164, AJ003147, U64453, AF124523, D84394, AC002070, U91322, AC003030, AC006511, AC004106, AC004491, AC005777, Z98750, AL031290, AF195658, U80017, AC004019, AC005913, AC006241, AL109984, AC005800, AF053356, AC007538, AC007055, AC002312, AP000240, AP000557, AC005971, AF111169, AL109798, AC005200, AL022323, AC004854, AC005535, Z82244, AC005725, AP000558, AC002350, AC006388, AC003692, AC007993, AC004929, AL117330, AC004834, AC004531, AP000553, Z82214, AC002094, AC003982, AL049780, AC006441, AC007225, AC007536, AP000555, Z46773, U47924, U96409, AC005747, AC005053, AL121652, AL009181, AL049839, AL133371, AC009516, Z83840, AC006487, AC007546, AC006515, AC005858, AC005841, AC004905, AC004814, AC007090, Z93023, AC004832, AL022476, AL096701, AC005102, AC004583, AC005332, AP000275, AC006132, AL078638, AB000882, AL022238, AL133448, AL096791, AC003684, AC005751, AF091512, AC008012, AC005914, Z93020, AC006064, AL035089, AL050332, Z98036, AC004231, AP000105, AP000037, AP000503, AC004638, AC005363, AP000690, AL008721, Z97183, AC002416, AP000959, AC006251, AL008583, Z98256, AC002310, AL023575, AL121754, AC003663, AL049834, AC016027, AL121653, AC005089, AC006130, AC016830, AC004253, AL021366, AF205588, Z68226, AC006539, AL049697, AC005722, AC007344, Z97876, AP000114, AP000156, AC002526, AC004882, AC006480, AL049745, AL031774, AL122023, AL096678, Z68756, AF134726, AC005095, AC004477, AC008273, AP000025, AL049776, AC005820, AC003041, AL031575, AL009183, and AL078632.
HNEBF27	8076	684467	1 - 255	15 - 269	AA340904, AC002430, and AC007384.
HNEBF20	8077	529643	1 - 66	15 - 80	AI298252, AI954850, AI743793, AI807633, AI537343, and AI208171.
HNEAQ86	8078	575534	1 - 288	15 - 302	F30650, AI567391, T05684, F30586, F35689, F16848, AA507814, AA570441, AA515728, AI707744, AW419389, AA654482, R74433, T17332, AI869797, AA947369, AA340737, AA229159, AL121287, AI689198, R89560, AA610381, AA598736, AL037632, AI246996, AA338770, T39217, AA226532, AA527109, AW328202, R34070, AW150387, F30158, AA985199, AC002544, AL096791, U91326, AC005231, Z82215, AL022327, AC006312,



AF200465, AL034379, M87889, AF196969, AC005015, AC003002, AL034420, AC005696, AC005911, AL132987, AC005747, AC003982, AC005225, U75285, AC004859, U67809, AC005736, AP000008, AL135744, AC004686, AC005212, AL109827, AC020663, Z85986, AF001548, U73647, AL049712, AC005399, L78810, AL035659, AP000704, AL109758, AC006011, AC004000, AL031657, AC005944, AC002310, AC002551, AR060077, AC005006, AC006241, AC002398, AC006121, AF053356, AL049539, AL023807, AP000047, AC005531, Z84469, Z83844, AC012627, AC002558, AC007878, AF031078, AL050332, AP000555, AC005239, AL121603, AC005837, AB001523, AC007059, AC006132, AC002350, Z97054, AL023882, AF030876, AC004922, AC005084, AC002996, AC007766, AC005003, AC004655, AP000116, AP000115, AL031133, AC004656, Z69917, AC004858, AC004787, AC005104, AC004816, AC006449, AC004878, AC004963, AC005920, AL020993, AF095901, AF196779, AC007376, AC006512, AC004491, AC006023, AC005632, AC006130, Z98051, U07562, AL023553, AC005088, AC005004, AC004905, AC005074, AL050308, AF109907, AC005280, AC008372, AL121658, AL049795, AC004854, AC003041, AC004531, AP000503, AC007308, AC005049, AF038458, AL023879, Y10196, AL096678, AB023049, AC002365, AC007637, AC005256, AC005081, AC005666, AP000030, AC004929, AL024509, AL109984, Z95115, AL031984, AL031230, AL021917, AC005488, AC004750, AC005102, AL133445, AC005996, AC005067, AF126403, AF030453, M63796, AL050318, AF118808, AC007537, AC005523, U91318, AC004770, AC005914, AC000094, AC000085, AP000303, Z82180, Z93023, AC000003, AC003026, L44140, AC006480, Z84466, AC007688, AL049843, Z75891, AC004844, AL023803, AL021366, AL031293, AC005529, Z82901, AC007686, AL022323, Z83843, AC007993, AL080243, AL021977, AC005324, AC005821, AC006538, AF111167, AC005089, AL035417, AL050309, AC005823, AC005695, AL020997, AC004834, AC005578, AC005622, AC002984, AP000502, AC000159, AF196971, AC007226, AP000703, AC004985, AC006285, AC007731, AC003043, AL031668, AL008726, AC005331, AC003108, AC005921, AC005500, AL021154, U63630, AL031670, AC007192, AF134726, AC003962, AC005338, AC002119, AC005484, M20903, AC004927, AF001552, AC016027, AL034429, AC004832, AC006965, AC007774, AL022311, AP001053, AC004672, AC007676, AC006277, AC000026, AC010168, AC006262, AL031680, and AC000025.				
HNEAQ37	8079	507280	1 - 330	15 - 344
HNEAN10	8080	968468	1 - 395	15 - 409
HNEAK47	8081	529646	1 - 251	15 - 265
HNEAF71	8082	761414	1 - 473	15 - 487
HNEAA59	8083	738531	1 - 511	15 - 525
HMWJD93	8084	849419	1 - 478	15 - 492
H41860, AA321412, AA936323, and AA213692. W81648, W81649, AF1754581, AW374534, AI902340, AI902342, and AF086458. H75348, AW406166, AI122621, H40371, H75349, AI318176, AI638837, AA315764, AI189304, AA093383, AI335256, AA723497, AI344272, AI598250, AI192481, AW242317, AI140369, AW406665, H60725, AA330135, W68219, R91106, AA004461, AA676608, AI219489,				

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HMWIZ55	8085	731809	1 - 210	15 - 224		AW301879, AW408709, N27559, AA856945, R20715, H71238, AC006017, AL049712, AC005837, AC016027, AC016830, Z85986, AC004605, AC005618, AC006277, AP000355, AC004890, AC004560, AL031666, AC005520, AC007845, AL034423, AL009181, AC004985, AL031728, AL031295, AC004056, AC007955, AC006512, U93305, AC005102, Z79997, AP000512, AB023049, AC016026, AL021878, AL049832, AF024533, and AL078611.
HMWIX77	8086	973813	1 - 634	15 - 648		D58283, D80043, D50979, D59467, C14389, D80188, D80195, D80227, D80164, D59275, D59502, AA305578, D80391, D80253, D59787, AA514188, D57483, D59859, D80022, C14331, D80166, D51423, D59619, D80210, D51799, D80240, C15076, D80196, D80269, D81030, D80038, D81026, D80212, D80193, D80219, D80366, D59927, D80378, D59610, D80522, AA305409, D51022, D59889, D50995, D80045, D80024, D80248, AW177440, D80241, C75259, AW360811, T03269, AA514186, C14429, D80251, AW178893, D51060, C14014, D80133, AW375405, AW179328, D80247, D80439, AW366296, AW378532, AW377671, AW360844, D80268, AW360817, AW375406, AW378534, AW179332, AW377672, AW179023, AW178905, AW177731, AW177501, AW177511, D58253, C05695, D80302, D80132, AW178762, D51103, AW179020, D51250, AW352171, D80134, D52291, AW377676, AW178906, AW352170, AW178907, AW178908, AW179019, AW179024, AW178775, AW369651, D80157, AW177505, AW177722, AW352158, AW360841, AW352117, D59373, AW178909, AW177456, D51759, AW179004, AW176467, AW179329, AW178980, T11417, AW177733, AW378528, AW178754, AW179018, D59695, F13647, AW179009, AW179012, AW178914, AW178911, AW378525, C06015, AA809122, T48593, D80168, AI910186, AW367967, C14227, D58246, AW178983, AW177728, AW178774, D81111, AW378543, AW360834, AI905856, AW352163, D59653, C14298, D80064, C14407, D45260, D59503, AW178781, AW177723, AW352120, AW367950, AW178986, AW378540, H67854, C03092, H67866, AI525923, D59627, D59317, D58101, Z21582, D59474, T03116, AI525227, D80258, C14957, D60010, AW177734, AI525917, AI557774, D80014, C14973, C14344, AW378533, AI535686, D51221, D51097, D51213, D59551, AI525242, AI525920, AA514184, D60214, T03048, AI557751, C14046, AI525912, AI525235, D45273, C16955, AI525925, AA285331, AW378542, AW378539, AI525215, AI525237, Z33452, D50981, C05763, T02974, AI525222, AW360855, D31458, T02868, H67858, C04682, AI525928, C13958, D51053, Z30160, AI525228, N66429, D80314, AJ132110, AB028859, AF058696, AR008278, A84916, A62300, A62298, AR018138, Y12724, D26022, A82595, X67155, Y17188, A25909, A67220, D89785, A78862, D34614, AB002449, AR060385, D88547, AR016808,

HMWDX37	8087	708676	1 - 363	15 - 377	A94995, I82448, I50126, I50132, I50128, X82626, I50133, AR066488, AR008443, AR016514, AR060138, A45456, A26615, AR052274, AR025207, Y09669, A43192, A43190, AR038669, AR066487, I14842, A30438, AR054175, D50010, Y17187, AR066490, A63261, I18367, AR008277, AR008281, AB012117, AR008408, AR062872, A70867, AR016691, AR016690, U46128, X68127, D13509, AR060133, I79511, A64136, A68321, A85396, D88507, AR066482, A44171, A85477, I19525, A86792, X93549, AF123263, AR032065, Z82022, and AR008382.
HMWIS12	8088	970753	1 - 1087	15 - 1101	AI283313, AA910680, W70158, AW387836, W70197, R69239, AW387883, AW387786, AW387795, AW387782, AW387778, AW387775, R77897, AW020592, AI557808, AW020397, AW020710, AW021717, AW019988, AW020425, AW021178, AW023351, AW023955, W48671, AA099519, AW020629, AW023863, AW020480, AI687134, AI525653, AW022299, AC010202, AC005365, AC004686, AL021393, AR050959, X60769, and AC002480.
HMWTIQ64	8089	842657	1 - 1650	15 - 1664	AI684734, AW134873, AA912105, AI808963, AA905108, AA764759, AI911204, AW268977, AW405428, and AW086137. H51069, H93820, H93316, H51070, AL048969, AA603421, AA535216, AA679794, N57681, AI281818, AA714110, AI859438, AW410354, AI380617, AA129746, AW419389, AA714011, AW407632, AW021161, AI884383, AA489240, AA601230, AW022934, AW151247, AI523074, AA604831, AW341978, AI291439, AI537995, AI536858, AI130709, AI709307, AW131356, T74524, AA678950, AW272640, AI814682, AI446623, AI735609, AI120959, AA558404, AL042906, AI340151, AA829044, AC002126, AC004491, AC005081, AI096791, AC006449, AC005632, AI031670, AC004859, U91326, AC002365, AI109865, AC005015, AC005332, AC007731, AC005500, AF196969, AC005399, AC006211, AC006121, L78833, AC005225, AC003982, AC005527, U47924, AF129756, AC004983, AI031680, AL049779, AL049540, AL121603, AC005088, AL109627, Z98941, AC006312, AC002316, AC002425, AC005529, AL139054, AC004991, AC005736, AC005519, AP000512, AL035072, AI031846, AF001548, Z98946, AF001550, AC005531, AC005746, AC002477, AI031230, AI031311, AI024498, AF111168, AC003101, AC005911, AC005011, AC003684, AC002544, AC006441, AC006111, AC004019, AC002301, AC005488, AL031673, AC004841, AC002303, AC005409, AC005207, AC006480, Z83840, AC002429, AC005484, AL133245, AJ011930, AF109907, AI031133, AF047825, AC007880, AL133246, AC005520, AP000557, AC007686, AC004253, AL049776, AL031662, Z83846, AC007371, AL096701, AC005288, AC009516, AC003043, AL080243, AC002565, AC005089, AF001549, AL021391, AC003029, AC002470, AC004033, AC002073, AP000134, AP000212, AC005839, AC007637, AC004659, AC006538, AL022302, AF134726, AC004584, AC000353, AC000052, AC005695, Z98884, AC005231, AC004821, AC004000, AL121658, AC003109, AP000359, AL133163, AC004797, AI031283, AC007263, AC007536, AF001552, AC005368, Z99716, AL050318, AC005940, U91323, AC005280, AP000248, AP000558, AL031282, AC002543, AC012384, AC004139, AC009247, AC016025, AL035659, AC005913, AC005971, AP000514, AC002302, AC002350, AC002347, AC004477, AC005599,

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HMWQ44	8090	716509	1 - 625	15 - 639	
HMWQ15	8091	956253	1 - 360	15 - 374	
HMWTM05	8092	861094	1 - 567	15 - 581	AA160427, AI912401, AA228442, AW272815, AA972523, AA484892, AA728911, AA449923, AI733856, AI860535, T74524, AW019964, AA502980, AI049643, AA653291, AA904211, AW270385, AI864500, AL041375, F23327, AA593537, AA485402, AA757758, AI537995, AI536858, AI130709, AA515351, AI142231, AA577985, AI989408, AA502977, AI434311, AI690379, AW237905, AW265688, AA827383, AA298365, AI791659, AW169038, AL139054, AC003029, AC006111, AC007216, AC006211, Z84480, AC005102, AC005519, AC004883, Z95114, U95742, AC007227, AC006312, AC005086, AL109798, AC005484, AC005412, AL008582, AC005229, L39891, AC005730, AP000355, AC005722, AL031728, AL009183, AC004230, AL022320, AL121603, AC002996, AC004583, AL022316, AP000090, AL109963, AC005372, AC004106, Z83840, AC007690, AC009247, AC005914, U78027, AC005933, AL109628, AF053356, AL035420, AC007240, AL022476, AL050318, AL031255, AC003101, AC006449, AC006064, AP000704, AC004000, AP000044, AP000112, AC007421, AC000025, AC005839, AC020663, AF207550, AC005696, AC004966, AC004019, AC002128, AC005031, AL031447, AC005971, AL031311, AC005071, AC004819, AL021393, AC004876, AL023575, AL035422, AP000067, AC004975, AL096701, AC005776, AC004253, AC003109, AL079340, AL035423, AC004859, AC005057, AP000689, U96629, AC005488, AC004813, AC007225, AC005368, Z98946, AC006317, U63721, AP000557, Z97056, AP000008, AC006511, AP000555, AC004963, Z93930, Z84469, AC005399, AC006285, AC004967, AC005670, AC004821, AC006539, AC002350, AC004851, AC005015, AC005261, AC005837, AC004955, AC005899, AC004884, AL035681, Z98044, AC004491, AC004263, AF190465, U80017, AC005081, AL121825, AL031681, AC005225, AL020997, AF196779, AC002310, AL034420, AL049569, AF134726, AC002040, AC002477, AL121652, AL031767, AC007308, AC006077, AC007226, D87675, AF001552, AC004383, U47924, AC007066, AC000353, AC007686, AC009516,

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HMWTL08	8093	959512	1 - 708	15 - 722	AI377192, AI184080, AA450266, AW026855, W65480, AI869635, H92183, H14198, AA974576, R58922, R90834, H97357, and AA351111.
HMWTK10	8094	964701	1 - 611	15 - 625	AA776466, AI470184, AI742757, AI750964, AA865422, AW005649, AI750965, AI969031, AI741029, AW139279, AA338882, AI445299, AW341808, AB032959, and AL021393.
HMWTG75	8095	767332	1 - 318	15 - 332	AW193265, AW408717, AI613280, AI350211, AI281881, AI270117, N53150, AL046409, AA623002, AI860013, AA828704, AI284640, AI334443, AI431303, F36273, AI358571, AA490183, AL119691, AA482711, AI799642, AA587604, AI754658, AW083402, AA613203, AA834707, AW261871, AL038705, AW438643, AA577906, AW083364, AW270270, AL044940, AW276827, AL037683, AA806796, AA722372, AA720702, AA551503, AA493471, AA613232, AI370074, AL041690, AW338086, AI370094, AA862173, AI133164, AA535661, AI570261, AI457397, AI375710, AA503947, AI744995, AI688846, AA584167, AI053672, AW274346, AA599920, AW193432, AI814735, AI471481, AI286356, AA631507, AA723017, AI634384, AI744188, AL038785, AA364429, AA719805, AW020141, AI696962, AI376100, AI921649, AA630925, AA491814, AW406447, W79504, AA134367, AI537955, AA213741, AA649642, AI281697, AI499938, AI368745, AA525824, AA664015, AI076616, AA362349, M86143, AI956124, W05405, AI559705, AA219129, AA661921, H71429, AI798473, AI969436, AA501600, N66026, AA368936, AA126777, AA350859, AA594725, AA601388, AA984708, AI963720, N27763, AA164251, AA469451, AI370878, AW148792, AA244357, AI017024, AL138455, AL040921, AI002834, AL043009, Y18431, X95097, AF077058, X55932, AF015167, D83989, U57005, AF015147, X55925, U18391, U18394, U18392, X54179, A39972, X55926, U57009, X54180, U18395, U18393, I51997, AF015157, U12582, X55927, U67801, U57006, X53550, X54175, X54181, X54178, U18398, X75335, U57008, U67832, X55924, U18387, X54176, AF015166, U67831, X55931, S75201, U18390, U04355, L47228, Z22650, AF015156, X55923, L35531, U67829, AL033543, U67827, AF015151, X55929, AF015149, X62356, X55930,

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HMWIG26	8096	861091	1 - 354	15 - 368	R91765, H80580, AI127315, and W69323.
HMWIG17	8097	663972	1 - 473	15 - 487	W92749, AA135553, AA723171, AA971474, AA716724, AA723148, AI129477, AA722631, AA126701, AA759279, AA128243, AA054734, AW130619, AI342776, AA521028, AA758558, H30397, AI312713, AW007796, AA814686, AI458733, AI911961, AI356318, AA448696, R50475, AI992039, AA85885, AI335606, AA448808, AI244820, AI243873, AI692581, AI018349, AA746499, AA831847, R69848, AA045310, AI279451, AI540785, W84621, AA648741, AI686115, R23217, AI652242, AI277449, AA983572, AI199899, AA977601, AA434264, AI284514, AI356077, H30405, AI061132, AI148418, AW300520, AA040698, AI969976, AW083124, AI160129, AI24072, AI536950, AI093214, AI089947, AW170119, AA811443, AA936383, AI142495, AW006134, AA447432, AA401210, AI831954, AA383372, AI371031, AA555078, AI189568, AI830792, AA043162, R69469, AI401693, AI738759, AI910399, AI188058, AW090281, AA641027, Y17454, AF159025, and AB030835.
HMWIG13	8098	657260	1 - 341	15 - 355	
HMWIG01	8099	913689	1 - 147	15 - 161	
HMWID28	8100	419821	1 - 585	15 - 599	T92652.

HMWIA19	8101	928488	1 - 256	15 - 270	AA872717. H71976, and AC004128.  T82833, and AW404502. W69602. AI952414, AI821854, AA594979, AI821710, AI253514, R06129, AI735011, and AA641406. AA158392, AA226584, AA484143, AI002734, AI298246, AI241835, AA311194, AA640704, AW075845, AC005480, AC004955, AP000512, AL049759, AC005221, AP000359, AC002350, AC016025, AC006480, AF064861, AL035072, AC004765, AJ003147, AC003029, AC002375, AC004805, AC005037, AC004883, AC004921, AC005755, AC006285, AC005803, AC005484, AC006538, AC006065, AL050348, AC008126, AL137191, AL022326, AL049780, AC005940, AL096791, AL031432, AC006166, Z84480, AC002420, AC005971, AC007695, AB023051, AC002115, AL049871, AF196969, AF091512, AC004865, AL078614, AC007738, AF195658, AC006530, AF067844, AC004821, AC007537, AL031602, AC003982, AC004701, AL023494, AC007360, AC002425, AP000114, AP000046, AL132994, AC007639, AC002351, AB020865, AP000269, AC008134, AC005746, AC005519, AL121652, AL031281, AC005887, AC005921, U73636, AL031255, AL132987, AL096701, AC004000, AC006064, AP000032, AP000035, AC005291, AC007387, AL035458, AB023049, AC005520, AL022313, AC019014, AC004890, AC006344, AC006387, AC005696, AP000103, AL035086, AC006251, AC005409, AL034417, AC002565, AC005768, AP000556, AC008101, AP000260, AC004682, AL035413, AC004796, AC006449, AL035587, AC007688, AC006138, L44140, AC006522, Z83851, AC004019, AC006039, AL022345, AC004596, AC006312, Z69838, Z84484, AC005091, Z93017, AF053356, AC004854, AC007193, AP000208, AP000130, AP000099, AC002470, AC004963, AL132777, AL021391, AP000247, AP000344, and AC005922.
HMWHZ43	8102	861097	1 - 364	15 - 378	
HMWHW8	8103	779903	1 - 277	15 - 291	
2					
HMWHV36	8104	708099	1 - 364	15 - 378	AI707744, AL120282, AI688963, AL046225, AL045756, AI268019, AC006942, AC002565, AC006430, AL034555, AC007686, AC004816, AC005231, AL080243, AC002425, AC006111, U07562, AL035455, AC004491, AL133163, AC004832, AC004922, AC003101, AC009516, U95740, AL020997, AL021546, AC005740, AL031255, AL031283, AC006126, AC002551, AC007216, AF196779, Z83732, Z85986, AL079342, AL035420, AP000553, AC004967, AC005015, AL024507, AL020995, AC005736, AC004257, AC004067, AL031228, AC002288, AC004887, Z94044, AL022322, AC012384, Z97054, Z83822, AP000030, AC006285, AF205588, AF111168, L78810, AC016025, AL133245, AC006001, AC005291, U95742, AL096701, AL049749, AC000052, and AC007934. H29797, H08896, and H70302.
HMWHV12	8105	970742	1 - 408	15 - 422	
HMWHP86	8106	785510	1 - 305	15 - 319	
HMWHD94	8107	794306	1 - 214	15 - 228	
HMWHB71	8108	565104	1 - 1244	15 - 1258	AA878492, AC005907, AC005089, L78810, AL031311, AL096791, AC007055, AP000359, H29797, H08896, and H70302.
HMWGW7	8109	646280	1 - 652	15 - 666	H29797, H08896, and H70302.
9					
HMWQ48	8110	861114	1 - 633	15 - 647	AA878492, AC005907, AC005089, L78810, AL031311, AL096791, AC007055, AP000359,

HMWGI79	8111	774806	1 - 688	15 - 702	<p>AL078581, AC005841, AC006011, Z86090, AC004893, AC007225, AC006285, AL009181, AP000511, Z98742, AF190465, AC005412, AC004134, AC007308, AL109984, AL021154, AL096701, U07563, AC007546, AL034399, AL035086, AC004033, AC007227, AC005006, AC005844, AC005288, AC004531, AC000052, AC005746, AC002350, AL022721, AL121658, AC002369, U85195, AL049760, AL049780, AL080243, AC004685, AL034420, AC016025, AC005225, AC004000, AL133246, AC005544, AC004067, AC003098, AL121652, AE000658, AP000117, Z85987, AC005015, AF042090, AC004913, AC004859, AL033521, AL021918, AL031587, Z98743, AC003108, AC005500, AC004638, AC007283, AC004841, AC007731, AC003042, AC004263, AC006121, AC006530, AC006449, AC005519, Z85986, Z95113, AC007666, AL034549, AC004167, AP000211, AP000133, AF111169, AL022330, and AL022476.</p> <p>AI821938, AI755214, AI754567, AI754105, AI038990, AI016192, AE354847, AW131356, AI249688, AW328331, AI038304, AI744788, AL045077, AA449468, AA640277, AI569100, AI243789, AW192599, AI859438, AI733856, AA578832, AI278972, AA713829, AA483606, AI889426, AI053398, AA653291, AA570740, AI281561, AA315361, AA177061, AI080307, AI249365, AA568204, AA483075, AI791659, H07953, H43771, AA634991, R87275, AW151247, AW089625, AL044339, AC005089, AF029308, AL031281, AP000065, AP000301, AC005722, AC005702, AC002544, AC007021, AC012627, AC005529, AF111168, AL009172, AC007216, L78833, AC005071, AL008734, AC005207, AC006130, AL031447, AL022320, U95742, AF129756, AL034420, AC000003, AP000555, AL117694, AP000501, AC005527, U52111, AL121603, AC008134, AL031123, AL034417, I44140, AC004849, AC005531, AC006312, AL049795, AC007676, AB023048, AF134726, AL049869, AC003043, AC007276, AL109827, AC008123, AC005911, AL049636, AL022318, AC000025, AC007308, AL136295, AP000503, AC006040, AC005231, AC007191, AC004019, AC004656, AF039906, AC006011, AC003982, AC004834, AC006501, X87579, AL031005, Z98884, AP000355, AC004895, AL049872, AF030453, AC018633, AL135744, AL049694, AB023049, AC007376, AC004686, AL035587, AL049776, AC002394, AC005228, AL109798, AF109907, AP000553, AL049712, AC004797, U91326, AL109759, AC006285, AC004878, AC008372, AP000552, M63796, AC005839, AL049766, AL008583, AL121658, AC006581, Z85986, AC005618, AL022238, AC004832, AL080243, AC000070, AL021977, AC005288, AB003151, AP000688, AF165926, AC005841, AC006241, AL008582, AC006449, AC006077, AC005081, AL135960, AJ131016, AC005530, AL078581, AC004552, Z95114, AF047825, AC006453, AC006254, AL021939, AC002430, AP000045, AL139054, AL121653, AP000512, AC020663, AC004706, AC007666, AC004820, AC005209, AC005899, AC005332, AP000511, AC005274, Z99716, AL078638, AC006084, AL035072, AC005568, AC009464, AC005399, AC007384, AF196969, AC000120, AC006211, AC010170, AP000513, AL050318, U47924, AC007684, AC007227, AC016025, AC006064, AC005280, AL022721, AF207550, Z83844, Z93241, AC005914, AL035249, AP000152, AC004655, AL049643, AC005067, AC004762, Z84469, AF030876, AC004159, AL023575,</p>
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HMWGH30	8112	455037	1 - 288	15 - 302	
HMWGE06	8113	935593	1 - 332	15 - 346	AA928968, AI143152, AW296605, AF064858, and AL121757.
HMWFFY93	8114	506636	1 - 444	15 - 458	R34758, and AA642317.
HMWFN80	8115	573608	1 - 334	15 - 348	L81392, AC004749, and L81391.
HMWFN37	8116	861123	1 - 452	15 - 466	AJ003358, AA453553, and AP001061.
HMWFN32	8117	573603	1 - 295	15 - 309	Z60346.
HMWFI18	8118	666681	1 - 334	15 - 348	R89320.
HMWFG88	8119	592078	1 - 588	15 - 602	R10175, AW401608, AW403120, AC004233, AF014118, and AR003664.
HMWFD86	8120	785629	1 - 400	15 - 414	AA251682, AA601385, AJ003636, and AP000523.
HMWFD68	8121	861124	1 - 148	15 - 162	AA730422, AA574448, W01639, AA890425, AI053458, AW303008, AI123396, AA716211, AA702098, AI524453, AA449923, AA368616, AA077285, AA832077, AI142231, AA483108, AW378752, H56003, H42968, AI888419, AC005412, AL021877, AC005372, AC005254, AC005531, Z98304, L78810, Z84469, AL133445, AC000355, AC002988, AF165141, AC002558, Z76735, AL133500, AC004593, AL033527, AL034351, AC005566, AC005255, AC006581, AL049636, AL109798, AC005852, AL008582, AC007201, AC005736, AC004933, AF061032, AC000117, AC004993, AL121754, AC011594, AL035691, AC006277, AP000552, AC004382, AC006985, AC004918, AL049743, AC002544, AC004542, AC007279, AL022336, AP000691, L34160, U20499, AL008637, AC005666, Z82184, AC005969, AL021939, AC000061, AC004813, AF030453, AC006014, AC005088, and AC004674.
HMWFC64	8122	573596	1 - 311	15 - 325	AI284640, AI370074, AA469451, AI334443, AA720702, AI370094, AW303196, AW193265, AI312309, AA490183, AW085780, AW301350, AW274349, AI281881, AI350211, AA521399, AA521323, AW103758, AA984708, AI962050, AI613280, AI281903, AW261871, AW072923, AW407578, AW406447, AI610159, AW327868, AL138455, AL138265, AI801591, AA587604, AI732865, AA613227, AI567076, AW419262, AI619997, AA780515, AL048925, AI053672, AW238278, AW340844, AA491814, AI688846, AI375710, AL119691, AW438643, AW193432, AA177061, AI341664, AI379719, AA135842, N71728, AA468131, AI345654, AI471481, AL048626, AI754658, AA665330, AI799642, AI305547, AA947547, AW338086, AI744995, AI801701, AI718446, AW406162, AA177063, AI249997, AA577906, AI246119, AA747276,

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HMWET56	8123	812712	1 - 246	15 - 260	<p>AA947547, F26152, AA502103, AA450199, N43757, AW192154, AI049634, AA365347, AI921649, AA593060, M86058, N70648, AI434706, AA513999, AI358343, AI376100, N71557,</p>

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HMWEQ52	8124	728535	1 - 470	15 - 484	AA255655.
HMWEN61	8125	909931	1 - 318	15 - 332	AA909291, AI808906, AW292487, AA828414, AA811421, AA486892, AI282535, AA419482, AI571878, AA436479, and AF020313.
HMWEL56	8126	733583	1 - 250	15 - 264	N51780, AW407881, AI160515, AA400967, and D87447.
HMWEI53	8127	861141	1 - 192	15 - 206	H82464.
HMWEA91	8128	790331	1 - 527	15 - 541	N34786, AI806471, AA570657, AA234475, AA738273, R70183, AA234112, R71398, and AI927958.
HMWEA10	8129	968105	1 - 574	15 - 588	AI378834, AA232793, and AA232649.
HMWDZ25	8130	678724	1 - 213	15 - 227	T83764.
HMWDR15	8131	660522	1 - 404	15 - 418	T06969, R27224, and AB028962.
HMWDP06	8132	935903	1 - 174	15 - 188	
HMWDN60	8133	974425	1 - 363	15 - 377	
HMWDH55	8134	732304	1 - 435	15 - 449	W84769, AW136382, AA009763, and AC004522.
HMWCT43	8135	715575	1 - 471	15 - 485	T81746.
HMWCR88	8136	955258	1 - 326	15 - 340	N94798, and N94764.
HMWCH47	8137	720581	1 - 356	15 - 370	R11783.
HMWCH04	8138	615628	1 - 602	15 - 616	N40606, N29201, H96518, N27833, AI925321, AI926681, AI860677, AI244758, AW272794, AA984191, AA826144, AI886060, AL044590, AI886365, AA987962, AA528441, AL039187, W90237, AI090334, R54896, AI079423, C16699, AL046746, AI954525, AA181773, AA206807, R59567, AI446601, AA507837, AW024210, AW152611, AA769114, AI305258, AW075915, AA729264, AL038936, F32893, AA832130, AL038909, AI471418, AI073888, AA196390,

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HMWCG38	8139	851630	1 - 598	15 - 612	N58418, AA034158, W74493, AW006009, AA015719, AA780267, AI445745, AI056261, W79090, AA400216, N78008, AI937396, AI191881, W73497, W23486, W67606, AI564573, AI374806, AA293838, AI097007, T95431, AA603085, AW295073, AA127181, AI122613, N26542, H84552, N39425, H55969, AI697129, T78468, AI090556, AA564396, AA748523, AI268509, N64022, AI168016, AI080325, AA053402, N48541, AA694390, AA651930, AA400127, W67558, AI268614, AI369805, AA450021, W69403, AI261755, W73515, T78545, N95084, AA618523, AA772633, R10577, AA327219, AA211289, AA302701, AA705259, R19400, AI924654, N73360, AA280628, R11610, AA846680, AW265361, R10576, AW023512, AI000971, C15592, R57045, AI085385, AA767586, AA830670, AA843900, AI817930, AA648329, AI143166, AA625706, AW385518, AA744945, AA383319, N89865, AI219903, AA403263, AA890669, N28373, AI091949, AI458483, AI299215, AA865342, AI052655, AA227192, N90503, AI041241, AA890424, AA056457, AI865626, AW265454, N53860, AI708757, H55970, AI547137, AI541216, AI535787, and AJ132931.
HMWBZ89	8140	787111	1 - 357	15 - 371	H49239.
HMWBT59	8141	893995	1 - 274	15 - 288	AA368664, AL043880, R62399, AA523876, AI915189, W05294, AA423981, AW339362, AI056132, AI873659, AI636417, AI812097, AI274942, AI349372, AA922395, AI168791, AW083986, AI266219, AI859189, AW194157, AI683304, AI199896, AI269181, AI625514, AI199890, AW130160, AA128362, AI338926, AI288535, AI339682, AA114897, AI091057, AI671452, W90768, AA810411, AA114896, AA137033, AA528033, AI743815, AW005102, AA523117, H48227, AI886641, R38443, F05074, AI680503, AA938005, AI862000, AW204921, R62400, AI305176, W90701, AI990810, F08811, H79690, AI023431, F04534, and T05279.
HMWBTO5	8142	932558	1 - 461	15 - 475	N20587, AA225583, AI391633, N28979, AI620540, AI601267, H24714, T49309, AA225604, AA987298, U73643, AL136842, X57796, and AB016226.
HMWBI77	8143	888862	1 - 533	15 - 547	
HMWBI40	8144	712730	1 - 603	15 - 617	T80378.
HMWBH29	8145	927321	1 - 625	15 - 639	T74339, AA007592, W90626, AA680304, AA954254, AI133697, W60511, AA007389, AA767198, AA143074, AA987383, AA313708, F12509, Z44513, W90249, AA827641, AI141189, AA401334, AA747585, F25999, AA575866, AA313726, F22587, AA730678, AA664969, F33617,

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HMWBG16	8146	859404	1 - 200	15 - 214	AA398006, and AI650862.
HMWBB42	8147	714114	1 - 484	15 - 498	R11451, and AA018329.
HMWAJ04	8148	586507	1 - 740	15 - 754	AA558616, AA578017, AA558697, AA578251, AI053465, D29241, AA649705, AA595825, AA810370, AA127636, AA713922, AA523815, AA304977, AA346575, AA834755, AA970213, AA451990, AA557970, AA341336, AA336362, AA574110, AA649722, AA483731, AA973803, AA515435, AA719080, AA078691, AA644207, AA446657, AA524838, AA559290, AI446638, N52544, AA077817, AA259186, AA161083, AA484670, T49241, AI205126, T16056, AI046457, AA487858, AA280632, R83443, AA461233, AA804379, AA720691, AA670468, AA503473, AA634145, AA847984, W56203, AI355238, R29012, AA678772, AA602528, AA876314, AA626747, AA513972, R95704, AA134959, AW083402, AA582911, AA480790, AA663486, AA522942, T15897, AA584751, AA873560, AI890918, R97634, AA605032, AA721615, AA996214, W05364, AA215474, AA845843, AA988259, AI471481, AA721981, AA252263, T10560, AA578349, T03722, AA437161, AA233519, AI037914, AA910125, AA078537, AA450089, AI041499, C14793, AA678443, AA559305, AI284640, T36219, H64778, T08438, AA678499, AA308806, N55273, H10994, AA330380, AA613421, AA350859, AA826793, AA209164, F19258, AA644551, T86755, AA196796, AA838096, AA525824, AA325699, R38154, AA834622, T54108, AA630606, AA780797, AA516527, AA486885, AA491284, AA102006, AA358321, AA703707, AA525876, N46153, AA194761, W80462, AA525249, F23249, AA551201, AA806796, AA323749, AA788858, AA527958, AA825455, AA665021, AA521355, AA533092, AA586562, AA167643, AW167267, M77899, T94075, F36273, AA492166, AA134347, AA206935, AA059472, F35659, AI567577, AA578141, AA525151, AA572713, F01658, F01141, AA552885, AA550758, AW236342, AA601222, AA837718, AI023082, AA593359, AA095511, AI648558, AA810269, AA357552, AA714055, AA491437, AA342901, T71030, AA650271, N69316, AA749274, AW088058, F10081, F29989, AA523020, AA302963,

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HMVDZ11	8149	966351	1 - 530	15 - 544	R83823, and AA157678.
HMVDV55	8150	811616	1 - 397	15 - 411	R56378, H05003, and R83285.
HMVDQ02	8151	919057	1 - 342	15 - 356	AA663501, AA862536, AW265642, and AW275747.
HMVDL45	8152	717384	1 - 827	15 - 841	H09382, R17471, Z44450, and F07290.
HMVDJ60	8153	877124	1 - 774	15 - 788	N46872, AA046610, AI589041, AI638264, AI888302, AW206234, AW135977, AI580058,

						AI657127, AW002540, AI660025, AI623109, AI381671, AW150855, AW206029, AW205466, AI973077, AI973087, and AI675515.
HMVDEI0	8154	861184	1 - 730		15 - 744	AA460638.
HMVCY89	8155	786651	1 - 504		15 - 518	R11102, R11103, H47988, H81110, R11125, and AC005611.
HMVCY14	8156	657801	1 - 461		15 - 475	T96219, T79232, T96458, AF157101, and AF025884.
HMVCG26	8157	681174	1 - 354		15 - 368	R25770, AA249108, AI741586, and AC002519.
HMVBY77	8158	771974	1 - 563		15 - 577	T65331, F11774, F11773, AI364568, AA557911, R17490, AA196160, R10144, T60316, AA493829, AA150013, AA806789, AW151637, AW151645, AW151646, AI139971, AW249468, AA714190, AI624666, H81732, T56025, AI567148, AA363957, AA226679, AA484191, AI678754, AI360630, AI281401, AA515440, N63891, AI538106, AI273990, AI933478, AA434078, W67486, AA565319, AW023515, AI242432, AI242531, W87421, AI814959, W67485, T93105, AI689198, AA516058, AA599080, F25580, AA525332, AI149238, AA581317, AI300054, AW236163, AI823533, AI823535, R51582, AI933486, AA837325, AI421723, AA601265, T64444, AW084431, AA584635, H53189, AI119156, R92658, AI119182, T05617, AA361513, AA742764, AI254463, AI252005, AA564682, AW028834, AA601673, AI038977, AI299192, AI909229, AA613850, AA586433, AI869786, AI891075, AW058223, AA159006, AC006479, AC004859, AC004921, S68013, AC005531, AL008719, AL021528, AC006509, AC007738, AF001550, AC005217, AB023050, AF035968, AC000037, AC000032, AC004671, AC004491, AC007868, AL031005, AC004914, AC005609, AC005903, AC005327, AP000499, AB026898, AC012085, AL133163, AL049766, AC003689, AL031584, AC002347, Z84572, AP000556, AP000552, AL132987, AC006960, AL078581, AC005216, AF003529, AC004477, AC006006, AL035423, AC000035, AB020865, AL031276, AC004692, AL031230, AC000025, AC005527, AC008134, AC007917, AC005529, M76423, AC005952, AC004472, AL049631, AL121757, AC008372, AL049795, AL032821, AC005669, Z68284, AC007955, AL133238, AL049832, AC003690, Z92546, AP000010, AP000151, AL022162, AL135783, AL008630, AL023799, Z49866, AC004054, AL117355, AC007386, AC006121, AC005280, AL049776, AL031602, AP000245, Z69890, AC006541, AC005391, Z99297, AL096817, AC003983, AC005208, AC004000, AL022396, AC005484, Z97054, AC007384, AC009731, AC005821, AC005730, AL021939, AD000864, AF024533, Z83838, AL031985, AL049697, AC005088, AC000065, AL050341, AL031735, AL133245, AC007065, AC006312, AL109827, AC007025, AC005694, AP000171, AC004217, AL034402, AC006454, AL022241, AL117338, U72790, AC006020, AC004262, Z82901, AC004736, Z97181, AL121595, AC007276, AL021391, AC002476, Z54146, AP000298, AC005513, AF039907, AL023694, Z82190, AC004764, AC005255, AP000112, AP000044, AL109623, AL078604, AC002039, AC003015, AL021940, AC004912, AC005094, AC005089, AF134726, D84394, AC004805, AL135744, AP000689, AL022320, AL022318, AL023876, AC007285, Z81364, AC007314, AP000282, AP001054, AC005081, AC007731, Z99716, AC004616, AL078638, U95090, AC005841, AL021368, Z83839, AC006116, AC018633,



HMVBV16	8159	661692	1 - 584	15 - 598	AP000264, AP000279, AC006237, AP000130, AP000208, and AP000247.
HMVBV89	8160	786118	1 - 440	15 - 454	AA195746, AW292535, W88512, AI916149, and AA765346.
HMVB083	8161	780366	1 - 870	15 - 884	R18969, and AA491495.
HMVB091	8162	790025	1 - 506	15 - 520	AA028167, AI700675, AA035731, AI051312, AW207134, AI377083, and AI914607.
HMVB052	8163	726546	1 - 435	15 - 449	AA973466, and R31969.
HMVB044	8164	716410	1 - 372	15 - 386	W39569, AI638849, AI038503, W44924, AI203113, and AI864025.
HMVAT54	8165	888180	1 - 695	15 - 709	AA676928, and W86985.
					AI199183, AI799706, AI524226, AI658678, AI619916, H17863, AI679819, AA767653, AI567123, AI679243, AA993496, AI249113, AA846599, AI290066, AW168928, AA421148, AW001228, AI923054, W89146, AI358091, AA599007, AA969775, AA564967, AI696808, AI805502, C14005, F10215, AI860759, AA058367, AA705404, AA593588, AA581976, AI889279, AA700339, AI884486, AA350860, AI554646, AA447998, AI003564, AI860478, AI804832, AA206837, AW169777, AA887749, AI866503, AW193525, AA576924, T89112, AI277898, AW295179, H61752, AI214409, AA581255, T61678, AI701266, AA715116, AW067953, AA887759, AW188721, AA523949, AA652622, AA527474, T53110, AA402926, AW087438, W35420, AA206937, T49466, AA570117, T73430, AA548627, AI884326, AA448141, AA773851, H29750, and T53109.
HMVAT52	8166	726515	1 - 432	15 - 446	H13903.
HMVAP56	8167	732985	1 - 501	15 - 515	AA128982, AI149641, AI962865, AI871879, AI346313, AI024604, AA743300, AA293701, AA292933, AI470661, R40595, AW303434, AA833709, and AW005730.
HMVAF71	8168	761400	1 - 364	15 - 378	R59687.
HMVAF52	8169	861210	1 - 439	15 - 453	R53772.
HMVAC67	8170	751600	1 - 797	15 - 811	NT2471, T80710, and AC009320.
HMSPH53	8171	861245	1 - 406	15 - 420	AA635986.
HMSPE04	8172	926800	1 - 788	15 - 802	AI056701, W60140, N36147, AI478510, AA181306, AA187045, C14014, T74524, AA828045, AA127426, AA487209, AI923052, AI356440, H07953, AA298365, AI254779, AA477503, AA757426, AW275498, AW438539, AA809546, AW084445, AI753092, AA657835, AA613630, AI051037, AW302711, AA581525, AA525823, AA879053, AI890324, T96582, AA593828, H51061, AI583106, AI377161, AI345891, AA164891, AA484892, F23338, AA745383, AI355103, AA074143, AA375133, AI311276, AA701080, AC008038, U85195, AE000658, AC005921, AC009247, AP000115, AC006953, AC006057, U91326, AC005231, AC004531, AC003982, AC007371, AC005180, Z94802, AL078621, AL121655, AC004217, D00591, AC006312, AC005399, AC002056, AC004447, AC002550, AC005722, AF002223, AC004962, AC004890, AL135960, AI131016, AL022476, AL109798, Z84466, AC005288, AC004216, AL024498, AC005081, AC000082, AC007228, AC007308, AL133163, AL050332, AL050348, AC004158, AC004817, AC002544, AC006211, AC002470, AP000032, AF015262, AL022322, AC004491,

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HMSPA30	8173	861265	1 - 491	15 - 505	AA005143.
HMSOO28	8174	861287	1 - 460	15 - 474	AI890285, AA835569, D87435, and AF068755.
HMSOJ88	8175	861292	1 - 588	15 - 602	AA179756, AC007842, and AC006312.
HMSOJ01	8176	915084	1 - 779	15 - 793	AA449866, H64299, AA760923, AI243157, AI537197, AA807264, AA810059, AA490995, AI186126, AA810429, AW188231, AI917502, AI076044, AW016048, AA131996, AA724113, AA131830, AA741064, AA737445, and AB020677.
HMSOH03	8177	922828	1 - 743	15 - 757	R60302, F06228, R18381, AW378532, AA635310, AC004851, AC005529, AC004887, AC004813, AL022319, Z84484, AC002115, AL022316, AC007842, AC004874, AC004967, AL031428, Z77249, Z95116, AL034429, AC005015, AC005594, AC003041, AP000071, AC006388, AC010209, AC004216, AC003101, AC005527, AL121825, AC004794, AC005592, AC007425, AC005251, AC010206, AC008119, U91321, AL049576, AC006536, AL049631, AC002312, AC004526, AC004223, AC005041, AL020997, AC006241, AC000379, AC004859, and AC004913.
HMSNP06	8178	934161	1 - 424	15 - 438	AI362898, and AB007866.
HMSNG04	8179	926845	1 - 418	15 - 432	F23240, and F34475.

HMSMY10	8180	963431	1 - 418	15 - 432	AA694078, and T8377.
HMSMW91	8181	861336	1 - 117	15 - 131	AA677723, and AA376375.
HMSMW64	8182	861338	1 - 710	15 - 724	AA489878, AA773463, AA828637, AA613232, AA626040, AI580250, AA640710, AI932599, AA507822, AA559241, AI912401, AI933714, AI457389, AA633798, AA502683, AA515048, AA535216, AA157845, AI500453, AA714282, AW073510, AA581247, AI350211, AA146595, AA832145, AA146578, AA760808, AI022554, AI439910, AA837035, AW302013, AI783911, AI570943, AW090144, AI044471, AA452887, AA410828, AI056177, AA493226, AA501794, AI434695, AA847499, F08248, AA487726, AA564779, AA548040, AI524360, C15363, AI216151, AA779783, N58329, AW193265, AW275719, AI043105, AW021583, AA877992, AL048925, AI347810, AA228778, AW265735, AI471572, AA580808, AI017251, AI554471, N71033, AI244127, AA515133, AA229912, AI471691, N72524, H58354, AA405493, AA651639, AI923052, N95817, AW069769, AA630854, AW338179, AW438643, AA862243, AI002734, N64587, AI620585, AI561116, H07953, AI270476, AA666295, AI382825, AI004591, AA489806, AA302973, AA084609, AA410788, AI888468, AA749235, AA613627, AA532700, AL079734, AA904275, AA262752, AI674840, AA586661, H85792, AA491814, AA496927, AI580707, AI915293, AI355803, N22037, AA908431, C14967, AI284640, AI252506, AI356440, AI805535, AI805350, AA806796, AI186438, AA302327, AA491955, AA464739, AA569471, W02403, AW272294, AW163763, AA721158, AA658362, AI377413, AA488746, AI049643, AC000003, AC005763, AL035422, AC004967, AC005225, AC005619, AC010205, AC005409, AC004491, AL080243, AP000512, AC004963, AC005399, U91323, AC005808, AC005531, AC006276, AL109801, U78027, AC004585, AP000501, AC006449, AC010170, AC007546, AC002558, AL035587, AP000513, AC004209, AC007193, AC002319, AC005069, AP000510, AL049869, AC004598, U73636, Z97054, AL034420, AC003108, AC002350, AL031291, AC006275, AL133448, AC005274, AC004913, AC003030, AC007308, AC005305, Z82206, AC005330, AC004878, AL117354, AC004832, AC005175, AL035398, AC005412, AB014077, AC002369, AL049699, AP000236, AC007151, AC005231, Z98051, AC002425, AC004655, AC004774, AL031311, AL121658, AD000092, AL031848, AC000134, AL031427, AL049576, AL079340, AL008635, AC002996, U62292, AC004228, AL109847, AC005740, AC005919, Z93023, AC007226, AP000173, AC004686, AC004590, AC005914, AC004876, AL034553, AC007993, AL008582, AC004382, AC002492, AL022312, AC007227, AC004149, AC006023, AC005971, AF045555, AF045533, AC004049, AF047825, AC004797, AC007842, AL035685, AC002115, AL022724, AC005200, U91326, AC004099, U63721, AC006121, Y18000, AC005067, AL031685, AL031283, AL034429, AL023575, AL022165, AC006317, AL109984, AL109798, AC005253, AC007030, AL049776, AC004859, AC007565, AC007036, AC007229, AC006285, AP000091, AC002351, AC005736, AL031186, Z95115, Z83826, AC005512, AL079333, AC002395, AC005952, AF107257, AF111169, AC007792, AL035462, AC007435, AL049569, AC005086, AP000289, AC006430, AC007055, AL049540, U85195, AB023049, AF038458, AC004447,

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HMSMO59	8183	861341	1 - 595	15 - 609	AA132854, and AA132760.
HMSMN71	8184	927097	1 - 635	15 - 649	AI114712, C06057, AA873553, AW439714, AA488984, AA758246, AI379212, AI038707, AI565960, AA313336, AI039448, N70571, N24921, W04529, AA648488, AA576689, AA857397, AA452806, AA016215, AA843067, AA021506, AA834369, AA946685, R74086, R47997, AA887520, Z17365, AA450285, AA037649, AA805193, R53996, AA749374, AA736873, AA865979, AA932132, M85870, AA515596, AA936679, AA716202, AF176069, AF177345, and AF177346.
HMSMN26	8185	861345	1 - 489	15 - 503	W01688, AW271556, T92856, AL008627, AC005295, AC003109, AC005003, and AL133485.
HMSLH07	8186	953390	1 - 168	15 - 182	AA483479.
HMSKQ08	8187	861372	1 - 513	15 - 527	
HMSKH24	8188	495770	1 - 562	15 - 576	
HMSJX84	8189	783032	1 - 484	15 - 498	H10256, T16964, and F07075.
HMSJW48	8190	852496	1 - 2155	15 - 2169	AA411943, AW195769, AL020989, AL034451, AC004129, AL109956, AC003001, AC006143, Z99571, Z83841, AL033397, AL109733, AL031779, AC006924, Z96811, AL049859, Z78022, and Z83822.
HMSJU80	8191	775416	1 - 546	15 - 560	T87122, T77586, and W03662.
HMSJQ40	8192	954003	1 - 380	15 - 394	N21479, AA133872, AI167354, AA129368, N74537, W56424, H99653, AA297666, AW341978, AA365042, AI473995, AL038842, AA503298, AI073373, N57365, AI561060, AA833896, AA833875, AA832444, AA765925, AA482953, AW020150, AA136122, AW070892, AA503119, AC008041, Z82203, AC007285, AC007542, AC005529, AL049557, AF207550, AC005081, AP000497, AC006312, AC005015, AC004859, AC006441, AL049758, AC005971, AL049709, AF196779, AL080243, AL021707, AC005037, Z84484, AC002477, AL031005, AC005914, AC004929, Z98304, AP000692, AL121603, AC003689, AC002312, U47924, AL021394, AL049843, AC004938, AF109907, AC005519, AL049832, AC003982, AC005527, AC006210, AF111168, AC006101, AC006120, AC006013, Z98946, AP000510, AF111169, Z84469,

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HMSJO72	8193	465884	1 - 256	15 - 270	R10535, and AP000555.
HMSJO43	8194	715274	1 - 50	15 - 64	
HMSJM02	8195	920070	1 - 1079	15 - 1093	AA191493, AA190859, Z25142, AA063296, and AA190753.
HMSJL53	8196	921263	1 - 420	15 - 434	AC003046, and AC005859.
HMSJ22	8197	495774	1 - 569	15 - 583	U46128, A30438, I25947, L40401, and AR040601.
HMSJ78	8198	772846	1 - 461	15 - 475	AA190926, and AA731652.
HMSJD56	8199	868168	1 - 454	15 - 468	AA286875.
HMSIZ49	8200	973806	1 - 633	15 - 647	AW360811, AW177440, T03269, AW377672, AW375406, AW179328, AW366296, AW375405, AW378534, AW360817, AW360844, AW179332, AW179023, AW178905, AW178893, AW177731, AW352171, AW378532, AW377671, AW177501, AW177511, AW352174, AW179024, D58283, C14389, AW179020, D59859, D80022, C14331, D80166, D80195, AW352158, D80193, D59927, D59467, D51423, D59619, AW178775, D80210, D51799, D80391, D80164, D59275, AW178762, D80240, D80253, D80043, D59787, D80227, D59502, AW377676, D81030, AW352170, AW178907, AW178908, AW360841, AW179019, D80212, D80196, D80188, D80219, AW176467, AW177505, C15076, D80269, D80045, D80038, D57483, AW177722, D80366, AW369651, AA305409, C14429, D81026, D50979, D50995, D59889, AW178754, D80024, AW178909, AW177456, D51250, AW179004, AW179329, AW378528,

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HMSIW04	8201	465835	1 - 815	15 - 829	N62914.
HMSIU74	8202	765600	1 - 365	15 - 379	H86211, and H63108.
HMSIT32	8203	699241	1 - 506	15 - 520	N50056, and AA578534.
HMSIT28	8204	686663	1 - 326	15 - 340	T15530, and H14968.
HMSIP20	8205	669671	1 - 339	15 - 353	T63454.
HMSIP02	8206	920079	1 - 390	15 - 404	AI086180.
HMSIK04	8207	615218	1 - 339	15 - 353	AA252623, AA282769, AW169739, AI167434, AI038266, AI240380, AI608954, and AA602286.
HMSIB06	8208	935151	1 - 1310	15 - 1324	AA704174.
HMSHV11	8209	967007	1 - 324	15 - 338	AA506376, and T56128.
HMSHU68	8210	753038	1 - 499	15 - 513	N98756, AW015695, AA600174, AA599043, AI816903, AI963142, AA744590, AI142122, AI077980, AA989061, C01589, AC006946, and AC005300.
HMSHU37	8211	495778	1 - 265	15 - 279	AI031670, and AC004650.
HMSHT11	8212	967068	1 - 503	15 - 517	T02871.
HMSHO45	8213	717808	1 - 357	15 - 371	R84684.
HMSHU09	8214	709471	1 - 723	15 - 737	AA035379, AA035378, AI494330, H86195, AA056312, and R84260.
HMSHI61	8215	741834	1 - 1336	15 - 1350	H39805, N78668, H85323, W15175, AA256969, AA257077, H39806, AA059102, AA248862, AI608660, and AB007883.
HMSHG08	8216	959461	1 - 383	15 - 397	H45658, AC010205, and AC005409.

HMSHG06	8217	935496	1 - 412	15 - 426	AI873505, and AA868211. AL047194, R30808, AA127970, R21308, W49550, H11154, AW059635, AA133838, T96201, AI346495, AA046957, R52207, AA338045, W20506, T79356, AA344786, AA063363, W37522, R60470, R35905, T31941, AA203250, W68832, AA776637, AA340352, T34581, T35500, AA075388, T34053, AA337298, T99002, R11376, T31786, Z45899, T35531, H93460, F12241, T72052, T65262, U46386, T35164, AA374730, AA374708, AA228152, N99666, R60632, N44853, W05464, W38978, AA171804, AW372268, T18906, AA094785, AA707543, R32548, R82030, AW372267, T40014, W16937, AW363301, AW392423, AW161265, R31331, AA093953, AA313024, AW352224, AF062483, AF034546, Z98742, AF062482, and AL078596.
	8218	784966	1 - 418	15 - 432	
HMSHE17	8219	662265	1 - 855	15 - 869	T79224, T79733, AI878808, AI878839, AW160501, W27440, D59610, AW361175, T03269, D80241, D80193, D59502, D59467, D58283, D80166, D80195, D59927, D51423, D59619, D80210, D51799, D80391, D80240, D80253, D80043, D80227, D59859, D80212, D80196, D80188, D80022, D80219, D59275, D81030, D57483, D80269, D80038, C14429, D59889, D59787, AW178893, D80366, D50979, D50995, D80164, D80024, D80378, D80045, D51250, C14331, C15076, C14389, C14014, AW378532, C75259, D51060, AW177440, AA305409, AW179328, AW178775, AI905856, AI910186, AW352158, D81026, D80134, AW177501, AW178762, AW177511, F13647, D51097, D51022, D58253, D80949, D80522, AW360811, AW176467, C14227, AW352117, AA285331, AA305578, D51079, D81111, D59695, AW375405, AW378540, AW179023, AW377671, AW179332, AW360834, D80251, D52291, AW366296, AW360844, AW179220, AW360817, D80248, AW375406, AW378534, AW377672, AW178905, AA514188, AW177731, AW179024, AW179019, AW352171, AW377676, D80064, AW352170, AW179329, AW178907, AW179020, AA514186, D80133, AW177733, AW178906, AW179018, AW177505, AW360841, AW178909, AW177456, AW178980, AW378528, AW178908, AW178754, C05695, AW367967, D80268, AW179004, D80302, AW178914, AW378525, AW352174, AW178774, AW178911, AW378543, AW352163, AW177728, AI557751, D80014, AW352120, D80132, D80439, D80247, T03116, AW178781, T48593, AW178983, T11417, AW177723, AW367950, AW378539, D51103, D80157, D51759, AI557774, AW178986, D80258, C06015, D45260, AW177734, AW378533, D80314, AA033512, C03092, AA809122, AW378542, H67854, H67866, AW360855, AI525917, AI535850, Z17814, AI525923, D58246, D59317, C14975, AA514184, D59503, C14973, D51221, D59474, AI525920, AI535686, AI525913, D58101, C14046, AI525227, AI535959, C05763, AB020721, X67155, Y17188, A78862, A67220, D89785, A84916, A62300, A62298, AJ132110, D34614, D26022, A25909, D88547, X82626, AR075207, AR018138, AB012117, X68127, AF058696, Y12724, AR008278, A85396, AR066482, A44171, A85477, I19525, A86792, AB028859, X93549, U87250, A94995, AR008443, I50126, I50132, I50128, I50133, Y09669, AF135125, A30438, AR066488, A82595, AR016514, AR060385, AR060138, A45456, AR066487, A26615, AR052274, A43192, AR038669, AB002449, D88507, AR066490, A70867, D50010, Y17187, I18367, AB033111, AR008408, A63261,

HMSHD80	8220	882700	1 - 1135	15 - 1149	<p>AR064240, AR016691, AR016690, U46128, AR062872, D13509, A64136, A68321, I14842, AR054175, AR060133, AF123263, U87247, AR032065, AR008277, AR008281, AB023656, U79457, Z32749, and X93535.</p> <p>AL079812, AI679782, AW069510, AA631363, AA806796, AI802087, AA680243, AI732120, AI791227, AA846568, AI298710, AW079792, AA595782, AI580652, AW103758, AI589230, AA553666, AA453558, AI358343, AW276586, AW022379, AI859251, AI561060, AI499938, AA587604, AI144101, AI198376, AI754170, AI345518, AI370074, AI610159, AA488395, AW265009, AI370094, AI313166, AI439210, AW406162, AW069412, AI246409, AW265385, AW268973, AI567076, AW070892, AI718446, AI345654, AI821271, AA372478, AI754955, AI653636, AI358571, AA584752, AA630352, AW276817, AA302963, AI564454, AI471487, AI334464, AI344812, AI866964, R97780, AI628922, AI956131, AI798265, AA226715, AA542991, AA584145, AA702729, AA523843, AW075511, AA309841, AW020992, AA630925, AA491284, AA984708, AI345418, H71429, F36306, AA679672, AI421841, AI283911, AA563733, AA704393, AI287485, F29989, AI536834, AA133333, AI635274, AW168342, AW088202, AW338500, AI679045, AW327868, AA938105, AW406659, AI986165, AI367975, AA846876, AA059235, AA469451, AI951889, AA630362, AA525190, AL134972, AW407578, AW089322, AA508359, AA133406, AI635609, AA688130, AA654771, AI654247, AI866856, AA214342, AA864426, AL043144, AW407632, AI888518, AI216799, AI951928, AI828463, T08638, AI044858, AW304805, AA653618, AA827981, AI307608, AI301273, AI635279, AA601253, AA143516, AA101689, AL134439, T57119, T09071, AA483223, AA679936, T41242, AI732186, AL119691, AA579075, AA709005, AI246119, AA346458, AW302013, AW079135, AA496508, AA443390, N26226, AL037554, AL046898, AA381163, AI572924, AI334443, AA503475, AA478355, AI475569, AA156538, AI049634, W00807, AA598586, AI471691, AA503283, AA614070, T06783, AA837746, AA650376, AI087133, AI289447, AA531372, AA493708, AA148197, AI982525, AA533725, AA722048, AA457592, AI471464, AA523838, AA502963, AA598425, AI284640, AA569214, AC005288, AL078463, AC005754, AC006312, Z99716, AL035681, AC005822, AF088219, AC004675, AC002091, AC005736, AC006064, AC002395, AC005399, AL049795, AC005231, AC007676, AC005209, AL121653, AL031311, AC004000, AL133448, AL022476, AC002350, U52112, AL080243, AC005924, AB000882, Z96074, AC006277, AC005527, L78810, AC004139, AL031680, AC006251, AC006120, AC004876, AC000353, AC002301, AC006241, AC002543, AL034548, AC005562, AL096791, AC004671, AC002040, AC005011, AC005520, AC005828, AC005215, U62317, AL035659, AL133371, AL021393, AC005694, AC005529, AL008718, AP000131, AP000209, AC000052, AL133246, AC007191, AP000248, Z95114, AP000359, AC005291, AC009516, Z99129, AC002073, AC004858, AC006057, AC005900, AC008079, AC005031, AP000553, AP000506, AC004966, AC004236, AC018633, AL031255, AC010205, AF109907, AC002115, AL023803, AC006948, AF111168, AL109798, AC008040, AC007055, AL034420, AC007226, AC007919,</p>
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HMSHB81	8221	777946	1 - 682	15 - 696	W07507, N81144, C01673, and AC007298.
HMSGX86	8222	793163	1 - 310	15 - 324	
HMSGF56	8223	733562	1 - 365	15 - 379	T87391, and R94130.
HMSGF54	8224	730823	1 - 555	15 - 569	AA075407, and AA829024.
HMSGF51	8225	761922	1 - 573	15 - 587	AI628560, AI628570, W52594, H15987, AA314350, AA081556, AA449562, W48833, AA340229, W19356, H16913, AA309056, R18554, AI460069, T80286, AA384328, AA318911, R12855, and AC006033.
HMSGD24	8226	677337	1 - 416	15 - 430	N62538, and N62572.
HMSGC85	8227	783608	1 - 825	15 - 839	AA585378, AI526112, AA585325, AA585278, AA585389, AA585430, AA585329, AA283312, AA585439, AA585116, AA585098, AA585356, AI525306, AA585453, AA585420, AA585101, AA585327, AW366296, T26367, T48593, AI541402, D78224, D57491, T18597, C15406, R29657, AA585198, Z32887, D59751, C15069, Z32822, D53161, AA585155, AI526205, D54850, R45895, D61185, AA585351, AI526169, Z33559, D51433, AI57718, AI525316, AI541356, AI557262, AI541365, AI557864, D59458, AI526078, AI526146, Z36724, AI535660, D51413, AI525500, D50992, AI526016, AI526158, AI526140, AI546855, AI557740, AI535639, Z28355, AA486970, AI557809, AI557731, D54897, AI541535, AI546831, AI421391, AI541013, AI541492, AI541205, AI525556, AI557533, AI525168, AI557727, AI540903, AI546971, AI526187, AI536138,

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HMSFY63	8228	745230	1 - 448	15 - 462	W96346.
HMSFX73	8229	888326	1 - 170	15 - 184	
HMSFS08	8230	959773	1 - 408	15 - 422	
HMSFR23	8231	919890	1 - 1974	15 - 1988	AI016389.
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HMSFN08	8232	959774	1 - 294	15 - 308	AI611315.
HMSFN68	8233	753635	1 - 137	15 - 151	
HMSFN13	8234	384695	1 - 209	15 - 223	
HMSFN08	8235	960147	1 - 530	15 - 544	T87975, T78968, H75882, AA186627, AA157874, AA155657, and AC005632.
HMSFN34	8236	706366	1 - 352	15 - 366	H60137.
HMSFN64	8237	842040	1 - 186	15 - 200	AA452398.
HMSFN67	8238	751865	1 - 221	15 - 235	
HMSFN15	8239	660654	1 - 262	15 - 276	H48662.
HMSFN70	8240	909997	1 - 417	15 - 431	AA937295, AA749017, AI961060, AW296060, AI560436, AW137661, AI952999, AA837074, H14097, AA058658, AA058632, D17577, AB023656, AF131865, and AF090190.
HMSDK10	8241	968435	1 - 152	15 - 166	N56866.
HMSDI34	8242	559991	1 - 315	15 - 329	
HMSDGI2	8243	574950	1 - 339	15 - 353	H51539, AI818853, AW008155, AI915439, AA113960, N25429, AI539019, AI090837, AI269976, AW183489, AA705828, AW028222, AI085311, AW057893, AW025905, AI817383, AA627364, AI807821, AI807831, AL134858, AA570019, and AC005786.
HMSDGI4	8244	927804	1 - 352	15 - 366	AA526542, H38817, R54896, H25626, AI174535, AA516247, R71981, AA641112, AA745524, AA744001, AA524616, AA506744, AA744272, AA744455, AA745588, AI624990, AA743966, T34066, AA729470, AA779667, F07193, AI683294, H97358, AA364869, AA804625, AA830910, AW246879, R91911, AW238325, AA700569, AW081359, AI863246, AW102955, AA035676, AA251117, AW062759, AI241637, R13151, AI123488, AI636306, AI024782, AI188049,

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HMSDB08	8245	960260	1 - 611	15 - 625	AI694133, and AC005661.
HMSDA81	8246	778469	1 - 362	15 - 376	AA846610, W32521, and AI089044.
HMSCY01	8247	921768	1 - 387	15 - 401	R86918.
HMSCW45	8248	723483	1 - 274	15 - 288	AI090721, R98008, AA992295, and AI024933.
HMSCT69	8249	855855	1 - 462	15 - 476	Z54334.
HMSCP73	8250	764703	1 - 354	15 - 368	AA213710.
HMSCO63	8251	855863	1 - 431	15 - 445	H80947, H54099, and AA513418.
HMSCD07	8252	954243	1 - 314	15 - 328	AA214194, and AI031709.
HMSBZ67	8253	973737	1 - 473	15 - 487	AC003091.
HMSBZ13	8254	855866	1 - 436	15 - 450	T93073, and AI826311.
HMSBY67	8255	752145	1 - 464	15 - 478	AA258700.
HMSBW54	8256	880721	1 - 571	15 - 585	AA280755.

HMSBU24	8257	678709	1 - 757	15 - 771	T47576, T47577, and AF146689.
HMSBO95	8258	796724	1 - 363	15 - 377	AA010247.
HMSBM92	8259	792970	1 - 127	15 - 141	.
HMSBI82	8260	780229	1 - 176	15 - 190	
HMSBI56	8261	733772	1 - 71	15 - 85	AL122007.
HMSBH85	8262	784576	1 - 448	15 - 462	H69907.
HMSBH08	8263	958802	1 - 1311	15 - 1325	AW378532, AW089016, AA595661, AI123488, AL044701, AA493808, AI828721, AA507623, AA935827, R72363, AI355246, AW152439, AA584360, AW057760, AA654705, AA676592, AI453476, AI791659, AI733523, H71678, AI567676, AA493245, AI521525, AA425283, AA135761, AA640305, AA526643, AA829565, AI984168, N32081, AI434686, N29829, AI609984, R22196, AI350189, W04238, AA720582, AI159799, AI345566, AI697235, AW020150, AI860423, AI915081, AI242614, N27362, AA128511, AI434103, AA526542, AI697239, AI610012, AI583532, AA487209, AI697242, AI609974, AA631915, AI342863, AI086603, AA482682, AA577706, N23099, AA635135, N94115, AA640104, AI798493, N32080, AA747757, AA584183, AI280535, AA303002, AA807704, AI537368, AA015948, AI791426, AI732473, AA525112, AI521042, N32094, AA297776, AW272606, AI682899, AI754064, AI679730, AW072963, AA832145, AA054055, AA613761, AA719564, AW380335, AA564591, D34614, AC007546, AP000688, AL008710, AL035413, AL109952, AL049631, AC007388, AC003108, AC000353, AC005305, AC005921, AC002430, AC007565, AC006011, AL049636, AC007384, AC003002, AC005516, Z84474, AL133246, AL031229, AC006121, AC004008, AC003962, Z93024, AC005003, AC005088, AC005619, AF109907, AL022326, AL022237, AL049872, AC007283, AC005839, Z93241, AC002544, AL031666, AC007421, AL031602, Z95116, Z95114, AF141309, AC004663, AC002310, AC005399, U78027, AL022322, AC009247, AL049743, AC007227, AC004662, AP001054, AC007207, AL035422, AF107045, D28126, AL022398, AL035462, AL049869, AL034451, AL031297, AC005593, AC007151, AC002128, AL031681, AC005328, AC004408, AC004150, AC004699, AL031311, Z86090, AF024533, Z84469, AC005231, AC003043, AL022721, AL133163, AL133241, AP000049, AC003667, AL035684, AC000025, AC005015, AC004477, AC004099, AF060568, AC002316, I34294, Z92546, AP000311, AC005049, AC006505, AL121578, AC003112, AC007559, AC005527, AC001234, Z97054, AP000116, AC002549, AC004755, AC005899, AP000555, AC004009, AF196972, AL031782, AC006013, M63796, AC005082, Z93023, AC004887, AC004920, AC005913, Z73359, AL096701, U93305, AP000497, AC004491, AL034379, AF196779, AF207550, AC005255, AC002538, AL049757, AC004448, AC004973, AC007899, AC007536, AP000359, AP000689, AC006111, AP000353, AC006017, Z83844, AC002407, AC002039, AC006449, AC004814, AC005377, AC004079, AL117258, U07561, Z97353, AF184110, AC005971, AC007386, AL109627, AL096767, AC005754, AC005624, AC004893, AC005529, AP000233, AF134726, AC007057, AP000289, AP000147, AC006101, AC006236, AC005369, AP000350, AP000042,

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HMSBH07	8264	954457	1 - 448	15 - 462	AI225156, Z80896, and U51560.
HMSBF92	8265	582654	1 - 905	15 - 919	Z99774, AC007073, AP001051, AC007016, AP000014, AL009179, AL096772, AC002375, AC005347, AC006060, AC005279, AC008123, AL008710, AP000155, AL109620, AC005736, AC007240, Z82250, AC005905, and AC006167.
HMSBC31	8266	960021	1 - 552	15 - 566	R08621, R09445, T83341, R12764, AI868587, AW168691, R52828, R66453, AI572495, R26443, AI479182, AI745312, AW272841, AI376897, AI559339, AI818827, AI128920, AI818867, AA056017, AW243942, H98699, AI801490, AA599935, AI241017, AW023649, AI879926, AW264809, AI432465, AI022932, AI042229, AW294405, AI638167, AA563714, W46846, AI619816, AI453457, AI215121, AI373123, N63964, AI245268, AA972323, AA709398, AI122927, AI336525, AI273714, AA599488, AI862846, AI128566, AI950246, AW236025, D58140, AI951485, AI742100, AI913610, AI873481, AI479476, H47624, AI365294, AI610258, AI868878, AW192014, AI094370, AW295145, AA778934, AW303589, AI247403, AA947308, T90383, AI457642, R62344, AI346810, AA864840, N46424, AI655638, AW082317, AW305262, AW207683, AW084022, AI274053, AA490456, AI973108, W46841, Z40817, N20960, R91085, AW129403, H58229, N52900, AA034024, AI916541, C21345, AW152560, AA135710, AI913607, AA885112, C16453, R56284, and AI342372.
HMSBA43	8267	715699	1 - 364	15 - 378	H63639, and AA805570.
HMSAV84	8268	781872	1 - 405	15 - 419	H62879.
HMSAV65	8269	747792	1 - 393	15 - 407	AA524821, AA180370, AA083046, AA224525, AA181758, AA837677, AA526787, AA935988, AA493695, F36273, AI872020, AA757797, AA533303, AA580808, AA846953, AI584186, AL042213, AA653375, AI859742, AA477122, AI933534, AA551503, AI583283, AI243584, AA482806, AA632600, AA621596, AA782304, AI732547, AW075511, AW193265, F18619, AW168618, AA584167, C17734, AA992337, AI270117, AW438643, AI345654, AA834792, AA583898, AA847499, AA501821, AI908381, AA581903, AI350211, AI679782, AA483223, AA490183, AA715991, AA581076, AI049634, AA720702, AA935100, D58349, AL022329, AC009516, AC005089, AC006211, AC005412, AP000056, AP000171, AL132712, AL080243, AC005484, AP000330, AP000043, AC008115, AC004686, Z93930, AC005081, AC004491,

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HMSAT76	8270	842065	1 - 623	15 - 637	AA906051, AI911368, AI809060, R37329, and AW292043.
HMSAQ95	8271	796728	1 - 381	15 - 395	AA054495, and AL078593.
HMSAQ58	8272	738495	1 - 346	15 - 360	N36504, and W03426.
HMSAP36	8273	518062	1 - 211	15 - 225	
HMSAQ42	8274	714316	1 - 174	15 - 188	AA678143.
HMSAH80	8275	781640	1 - 365	15 - 379	R09134, and AC004897.
HMQDV06	8276	936015	1 - 450	15 - 464	AI492018, AW444713, AI760623, AI347343, and AI917642.
HMQDQ42	8277	457221	1 - 344	15 - 358	T87271, AI356228, and AI683496.
HMQDL40	8278	711421	1 - 242	15 - 256	AI948473, W87704, AI610102, and AI831741.
HMQCZ36	8279	708066	1 - 372	15 - 386	R16464, T80874, and AC006559.

HMQCZ18	8280	574068	1 - 459	15 - 473	R72937, AJ003337, AP001056, and AP001055.
HMQCX42	8281	712966	1 - 431	15 - 445	R97476, T83110, T82131, and AB018341.
HMQCV29	8282	974683	1 - 486	15 - 500	AW089880, R84393, AA976621, W73367, AI478491, AI081094, H43299, AW294792, AA378963, AW292636, AA378964, W69666, H66133, AI671768, AA701250, AA702739, AI985183, AW207720, AW292633, AW271763, AA256004, T47922, W45654, AA455850, AA704633, and AC020663.
HMQCN17	8283	385544	1 - 384	15 - 398	AA190721, AA974701, and AA149317.
HMQCM46	8284	719201	1 - 123	15 - 137	AI219699.
HMQCM41	8285	711586	1 - 135	15 - 149	
HMQCM05	8286	932363	1 - 180	15 - 194	
HMQCH69	8287	754188	1 - 419	15 - 433	N47102, AW135582, AI700192, AI871529, and AW081758.
HMQCH54	8288	728851	1 - 265	15 - 279	AA026069, and AA026070.
HMQCB03	8289	963370	1 - 305	15 - 319	AW072495, AI560951, AI743233, AI583496, AI583807, AI310201, AI380351, AA928555, AI500421, C17500, AI339070, AI884995, AI197975, AI344492, AI884792, AA877126, AA233986, AI245590, AA442443, W57931, AI079317, AA143237, AA721704, AA304268, AI027135, AI252344, AI335498, AI312160, AI334907, AI307561, AI252601, AI345291, AI312354, AI344924, AI312953, AW074978, AI590450, AW075157, AW301942, AI312975, AW301956, AI583821, AI348908, AW302779, AI370101, F26488, AI340917, AI611858, AI318626, AI802845, AI053448, AI376475, AI344868, AI308315, AA570158, AI311886, AW268184, AI541347, AI612046, AI307429, AI250091, AI370083, AI308517, AI308028, AI309430, AI611379, AI307014, AW301798, AI250220, AI417297, AA862400, AA143295, AI749104, AI879450, AI362876, AA933040, AI609988, AI382677, AI541281, AA282746, H46464, AA340388, AA327360, F36474, and AI133448.
HMQBN40	8290	779856	1 - 459	15 - 473	AA258747, AI347356, AW005871, AA639645, AI391658, AI379681, AI928095, AI819881, AA136079, AA557386, and Z79996.
HMPTA56	8291	921233	1 - 356	15 - 370	AA359995, AA993757, AC006026, and Z61386.
HMPTA28	8292	685099	1 - 290	15 - 304	AC006287.
HMPSC38	8293	709222	1 - 331	15 - 345	R08653.
HMPBB84	8294	781863	1 - 731	15 - 745	AA362237, and AA362238.
HMOAD90	8295	600400	1 - 339	15 - 353	
HMOAD60	8296	855919	1 - 228	15 - 242	
HMMCL96	8297	796276	1 - 468	15 - 482	AW023589, and R00787.
HMMCI01	8298	913715	1 - 329	15 - 343	AA835501.
HMMCH69	8299	754902	1 - 313	15 - 327	T52346.
HMMCH09	8300	625366	1 - 586	15 - 600	W01465, and AA259146.
HMMCD83	8301	875272	1 - 438	15 - 452	AW168912, T57077, T57149, AA570710, W04964, and AI743980.



HMMCD23	8302	675720	1 - 499	15 - 513	R27937, and Z97054.
HMMCA11	8303	966677	1 - 448	15 - 462	AA677566.
HMMCA08	8304	958980	1 - 424	15 - 438	AA610438, AI571512, AW074207, AA652057, AA649642, N23649, AA125788, AA548702, AA733208, AA555260, T40617, AA095511, AW088058, AI554289, AA557879, N23874, AI246340, AI469166, AW069427, N73083, AA317656, AI038990, F03525, AW406447, N26061, AI281903, AA687182, AA576336, AA812139, AI914151, AI801482, AA338522, AA301813, AA181494, H37777, T07324, AA552856, W25284, AA653327, AA594725, AW339568, AI754658, AL119123, AI744827, AA832181, AA074458, AL134703, F34999, N70337, H63991, AA526193, AA629415, AW408063, AA629407, N53152, T06652, AA369477, AA317170, AL138242, AI708005, AA613345, AF087510, AF006501, AL031587, AL031133, AC005694, Y18000, AC005529, AL132712, AF007544, AL121577, U86136, AL109611, AC005375, AC016025, AC016026, AC006080, U55182, AL035685, AC005210, AL031228, AC006057, AC006505, AC002316, AC005994, AL049690, AC007227, AC005324, AC007450, AB016897, AL022238, Z82976, AL080242, AL023575, AL008583, AC004820, AC007226, AC004526, AP000073, AC005569, AC005364, AC004232, AC020663, AC002115, AC004408, U51559, U63313, AP000432, AL121782, Z95126, AL136504, AC006536, AC009498, U41384, AC004944, AL121580, AC005030, AL049839, AC005175, AL050343, AF003530, AP000153, AP000012, AL031577, AC008071, AL049636, AC004492, Z15025, Y14768, AP000505, AL096712, AF129756, AC005940, Z98946, AC005808, U95740, AC005520, AP000350, AC007461, AL049779, AL049776, AC003983, AC003102, AC006323, AC005726, Z68344, AC005785, AF091512, AC003103, AP000692, AL022578, AC002080, AC005695, AC003684, Z99716, AC005500, AC005872, AL096734, AF154840, AL096765, Z84723, Z46773, AC005346, Z68756, AC005262, AL049741, AC004752, U07563, AL022320, AL096776, AC005998, AL022163, AC006486, AC003007, L78833, AC002310, AL109984, AC006543, and AL078474.
HMMBZ18	8305	666192	1 - 746	15 - 760	AA701580, AA701569, AA828646, AA776372, T87907, AA811226, R07726, R93731, AA761770, AI240497, T88001, R06363, R06362, R08543, and AA810943.
HMMBZ05	8306	566870	1 - 654	15 - 668	AA441997, AI885572, AW080811, AW166611, AI754658, AC005803, AC007436, AC007221, AC004905, AC004815, AC005225, AC006512, AC004616, AC004963, AF111169, AC002425, X75335, X54175, AC006948, X54181, AF196779, AC005784, X54178, AC006511, AC006023, AC005237, AC005067, M87919, AF207550, AL035072, AC004417, AC004858, AF109907, AC005988, Z97630, AC003688, AC007360, AC007546, AC005971, AC007899, AC002551, AC005521, AC007237, AC007731, AC007263, AC005500, AJ003147, Z68162, AC006160, AC007786, AC006255, AC002553, AF015148, AC005755, AC005288, AC005284, AL121653, AC006011, AC005531, AC009516, AL132712, AC006480, AL049780, AL034548, AL049709, AL022316, AL136504, AC002558, AL009181, AL049839, AC002544, AC005399, AL133448, AL022302, AF117829, AC004253, AC006501, AC006312, AL133353, AL031311, AL022329, AC005759, AC004643, AC004019, AC003664, Z85986, AC005786, AC006079, AC000052,

						AC004263, AC004033, U52111, AL109627, AC006211, AC004034, AL049759, AL080243, and AC005306.
HMMBX01	8307	916067	1 - 406	15 - 420		AL220476, AI376552, AI935005, AW090719, and AC006504.
HMMBV08	8308	958987	1 - 450	15 - 464		AI939575, and AI362923.
HMMBU13	8309	597147	1 - 444	15 - 458		H65100, AC004686, AF201333, and AF081568.
HMMBT64	8310	746399	1 - 408	15 - 422		T96528, and AA543014.
HMMBT30	8311	841959	1 - 607	15 - 621		AA280370, R58990, H71497, AC005050, and AL031985.
HMMBT03	8312	855930	1 - 631	15 - 645		AI754567, AI583466, AI061313, AL079734, AI436433, AI962030, AI366993, F23264, AW237905, AA904211, AI755214, AI923052, T74524, AI754105, AI754653, AA420546, AA864603, AI254959, AI612142, AI281730, AA515728, AW103406, AI354423, AI306232, AA829036, AA535216, AI583252, AI610941, AW275432, AA469327, AW274191, AA225406, AI926102, AI923451, AI635028, AI801505, AA456924, AI469599, AW243793, AA595661, AA714011, AW151541, AI521525, AI279417, AW271904, AW020088, AI798449, AI251576, AW272294, H07953, AA825827, AW023111, AL041375, AI984168, AA483606, T49633, AI291439, AI290405, AL138182, AI537995, AI536858, AI130709, AI249688, T05118, AA570740, AW069227, AI476049, AA524616, AA683069, AI917132, AI674840, AA651639, AI380617, AA608520, AI491765, AW272640, AI814682, AA284247, AI923458, AW328000, AI590485, AW089016, AA937809, N77915, AI753113, H05940, AC005006, Z98036, AC005004, AC004757, AF196779, AC004386, Y14768, U85195, AC005962, AE000658, AC007298, AP000505, AF165926, AL021154, AC006333, AC006026, AC004466, AP000114, AP000046, AC006312, AL049843, AC007371, AC004106, Z85986, AL023553, AC004991, AC005261, AC002425, AL031659, AC006942, AC002301, AC002418, Z95331, AC003669, AC004922, AL031680, AC009247, AC005821, AC002316, AL109839, AL035407, AL034548, AL049839, AC005736, AC005039, AL031737, AC005899, AL035587, U96629, AF130343, AC007707, AL034343, AC005378, AC004148, AC000003, AC007731, AC005632, AC005500, AC005280, AC007227, Z84487, AC005274, AL049643, AC000353, AL031283, AP000694, AC007993, AL050318, AC005837, Z98751, AF152363, AC004216, Z98256, AC007686, AL022098, AF031078, AC005220, AL024498, AF030876, AL023879, AL121655, AC004972, AL031848, AC005332, AC002300, AC004000, AL049872, AC007546, AC004033, AP000510, AL049780, Z93017, AC004821, AC004988, AC004458, AC005544, AC006552, AC009516, AC005952, AC004819, AL079340, AL109758, AC003080, AC005598, AC000118, AL117329, AL049856, AC006211, AL022315, AF134726, AC002369, AC005041, AC002426, AL050307, AL078581, AL133163, AC006057, AL121603, AC004796, AC005887, AC007052, AL049712, AL049636, AF053356, AC006354, AC004408, AC004181, AL050348, AC005158, AB023048, AL022724, AC004686, AP000697, AC005095, AC004999, Z93016, AC005670, AJ011930, AC008072, AL009172, AL022238, AL035659, AL121652, AL080317, AC005535, AC003982, AL117258, AC008115, AL024508, AP000302, AC005844, AF001549, AC005484, AC006017, AC004491,

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HMMBQ08	8313	958988	1 - 343	15 - 357	N24829.
HMMBO49	8314	722753	1 - 439	15 - 453	R56828.
HMMBO28	8315	686318	1 - 344	15 - 358	AL242854, and T99820.
HMMBN76	8316	769890	1 - 482	15 - 496	W88435, R98924, and T80763.
HMMBN71	8317	973436	1 - 458	15 - 472	Z99396, AL119484, AW392670, AL119439, AW372827, AL119391, AL134530, AL134519, AL119319, AW384394, AL119522, U46347, AL036418, AL038837, AW363220, AL119497, AL119457, U46350, AL119324, AL037051, AL036725, AA631969, AL119363, AL119443, AL119483, U46351, AL119355, U46349, U46341, AL119341, AL119335, AL119396, AL038509, AL036858, AL119444, AL119418, AL039074, AL119496, AL036924, AL037205, AL134528, AL043003, AL042614, AL119401, U46346, AL042544, AL134525, AL037639, AL134524, AL039564, AL039085, AL037094, AL039156, AL134518, AL037082, AL042984, AL042965, AL042975, AL039108, AL039109, AL037526, AL039128, AL119399, AL036196, U46345, AL142137, AL134538, AL043019, AL042542, AL142132, AL042551, AL036767, AL037085, AL038447, AL043029, AL036190, AL042450, AL037077, AL036268, AL038520, AL038851, AL036238, AL037615, AL119464, AL036774, AL037178, AL036998, AL036733, AL036719, AL037027, AL036765, AL036679, AL036191, AL036158, AR066494, AR060234, A81671, AR023813, AR064707, AR069079, AB026436, AR043113, and AR054110.
HMMBN54	8318	729352	1 - 384	15 - 398	H73690, and AF152365.
HMMBM8	8319	781010	1 - 228	15 - 242	T95450, W03267, and AC004112.
3					
HMMBL55	8320	731523	1 - 438	15 - 452	R36479, and AL091460.
HMMBH64	8321	746402	1 - 337	15 - 351	T78390, and AL031714.
HMMBF86	8322	812597	1 - 156	15 - 170	H56329, AA852740, AA331858, AA314410, AA375100, AA356819, AA331462, AA295347, AA232345, AA242864, AA081834, AL037869, AL037847, U91327, and AF026166.
HMMBF72	8323	761389	1 - 304	15 - 318	T91720, and AC007016.

HMMBF41	8324	711731	1 - 492	15 - 506	T40112.
HMMAV44	8325	716396	1 - 628	15 - 642	T86763, T86671, F05025, F05024, AL109758, AC005089, AC004770, AF053356, AP000555, AC002400, AL032821, AC002300, AC003010, AC004938, AC002302, U89335, AP000512, AC005067, AC005412, AC008038, AF001550, AC006480, and AC005529.
HMMAT23	8326	973437	1 - 572	15 - 586	AL035447.
HMMAT08	8327	959005	1 - 519	15 - 533	T64273.
HMMAS73	8328	764280	1 - 583	15 - 597	N47781, AI732466, AA133879, AI820506, T70099, AI821351, T70032, N56894, and AC006599.
HMMAR20	8329	669523	1 - 648	15 - 662	AA968696, AI017739, T71248, R85439, AI343336, AI168580, and AI699440.
HMMAQ70	8330	757070	1 - 428	15 - 442	W04436.
HMMAO06	8331	935087	1 - 643	15 - 657	AI241754.
HMMAL71	8332	760206	1 - 412	15 - 426	AA449997, AL079734, AA502207, AI733856, AI683552, AL041375, AA297666, AI859438, AI279417, AA714110, AI732483, AW237905, AI366993, AA715814, AI049630, AI281561, AI053696, AI491765, W23546, AA410788, AA508809, AL047349, AI783911, AI284045, AI908093, T74524, AA704393, AI912401, AL046519, AI821881, AI753113, AI821918, AI281818, AW080215, AA669238, AI114733, AI133552, AI251576, AW243793, AA558366, AW340905, AI962030, AI054244, AI440117, AL135377, AA609834, AA584241, AW193493, AA483606, AA515138, AI620585, AW419389, AI753672, AA904275, N23913, AI936229, AA507343, AA720732, AA315361, AI620992, AA570740, AL119909, AI270177, AA53216, AI753365, AI612142, AW167154, AW407632, AI961983, AI417469, AA632765, AA503018, AA665021, AI053784, AI066646, AI128511, AA992562, AI583466, AI267269, AW089625, AI597832, AI801563, AA513551, AI380617, AA568204, AI133013, H07953, AA904211, AI244985, AI284092, AI814682, AA557982, AW270619, AA084766, T05118, AI537995, AI130709, AI267356, AI267450, AA225392, AI306232, AA644090, AA610381, AW192373, AI267884, AI865213, AA533408, AW089016, AA730305, AC006312, AF030453, AC005088, AL049569, U80017, AC004851, AC005740, AC005899, AC006211, AC005081, AC005015, AC005225, AF196972, Z83844, AC009247, AF196779, AC005874, AF134471, AL096701, AC020663, AC004883, AC006511, Z83846, AC002425, AC005231, AP000558, U89336, AP000694, AC006017, AC005914, AL049795, AC005529, AC005086, AL121653, AL022163, AC005082, AC007226, AC006538, AF001552, U95740, AL035086, AL031846, AC005722, AC005527, AC004099, AC004491, AL049653, AL023883, AC005565, AL050318, AC004811, AF053356, AF001549, Z93023, AL096791, AP000692, U47924, AC006115, AC002483, AL022238, AC006121, AC007308, AC002126, AC006285, AC004876, AC005200, AC005519, AC005702, AC000094, AC006449, AP000557, AF064861, AC007421, AC007057, AC003026, AL020997, U96629, AL031281, AC004858, AC002565, AP000044, AC006006, AL080243, AC002477, AC005089, AC004796, AL049538, AC005358, Z84572, AL009183, AL049830, AL031005, AC005072, AC003982, AF130343, AP000212, AP000134, AP000967, AC004263, AC008115, AC003663, AL034420, AC005730, AL034379, AC006544, AC007384, AL132712,

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HMMAL69	8333	754908	1 - 395	15 - 409	W87482, and T40816.
HMMAL59	8334	738982	1 - 414	15 - 428	AI866921, AI866920, AI135159, R06121, AW04825, AI683019, AL031120, and AC004854.
HMMAL54	8335	729351	1 - 422	15 - 436	AI245693, AW303822, T08386, AC005763, AC005696, AL031311, AC004804, Z99716, AJ246003, D87675, AL121658, AC003101, AC004150, AL031280, AL035079, AC007262, U85195, L44140, AB000658, AC005412, AL022316, AC004890, AF165926, AC005520, AL121652, AC002314, AC002041, AD000092, AL049766, AC005736, AC005180, AL035422, AC004854, AC005049, AL109628, AL035405, AC004491, D88268, AL049764, AC005562, AC005932, AF045555, AP000104, AP000115, AC004972, AC007160, AC005081, AC018633, AB026898, AL049829, and AL096712.
HMMAL44	8336	716407	1 - 411	15 - 425	W86636, AI692200, and AI800445.
HMMAL42	8337	713542	1 - 411	15 - 425	AL133246.
HMMAL35	8338	707278	1 - 291	15 - 305	AA492230, AI890283, AA506952, AI684335, AI983447, U73642, AC005484, AL031848, AC005231, Z84466, AC009247, AC002558, AF205588, AC006241, AC006064, AC005200, AC005544, AC004686, AC006511, AC004491, AL034370, AL133396, AC004805, AL049776, AC005529, and AC007382.
HMMAL30	8339	693545	1 - 137	15 - 151	
HMMAL18	8340	665512	1 - 386	15 - 400	
HMMAL16	8341	661699	1 - 399	15 - 413	AA782338, AP001052, AC006012, AC005736, AL022331, AC005632, AP000558, AC009516, AL136504, AC007688, AC007938, AL008718, AC007731, AC005500, AP000553, Z85996, and

HMMMAK83 HMMMAH61 HMMMAF92	8342	781016	1 - 697		15 - 711	AC005255.
	8343	741662	1 - 437		15 - 451	AA007282, AI698091, AA007283, H78432, R91689, R97591, AI311305, R91688, and AI302599.
	8344	973971	1 - 618		15 - 632	H40407, AW391548, and AI356524.
HMMMAF34	8345	842015	1 - 466		15 - 480	Z99396, AW392670, AW372827, AW384394, AL119355, AW363220, AL119319, AL119497, AL119443, AL119335, AL119363, U46341, AL119483, AL119457, AL119324, AL119496, AL119484, AL119391, AL119396, AL119341, AL042614, AL119522, U46349, AL042970, AL037526, AL042433, AL134518, AL042965, U46351, U46346, AI142137, U46350, AL134920, U46347, AL119444, AL119418, AL119320, AL042995, U46345, AL119439, AL037205, AL042850, AL038520, AL134532, AL119488, AL036268, AL119304, AL036679, AR060234, AR066494, A81671, AB026436, and AR054110.
	8346	720838	1 - 791		15 - 805	AA513125, AI926296, AI949430, AW085621, AW168103, AI583532, AI474110, AA826599, AI473995, AI073373, AA056206, AW166944, AW173443, AL037632, AA297776, N70293, AC002096, AC006080, AC005726, D84401, Z82215, AL031228, AL022067, AL034548, X87344, AC003665, AL020989, AL022097, AC005004, AL033524, AC004408, AL034554, Z95152, AC005089, Z99716, AC006597, AL132708, AL049553, AL109748, AC005858, AC007056, AC005539, AC002430, AC007384, AL022165, AC007182, AP000502, AC005859, AP000065, AL008732, AD000092, AC009464, AL031584, AC005669, AC005409, AF196779, AL139054, AF053356, AL096791, AL049869, AL109801, AL031905, Z86090, Z93020, AC003663, AC004890, AC007308, AC002470, AL031289, L78810, AC005747, AB023048, AP000511, AC005820, AL035703, AB022785, U89336, AL031005, Z84466, AC004876, AL022316, AP000555, AB014079, AC006139, AP000514, AC005088, AC002094, Z99289, AC005988, AC006117, AJ003147, AC002550, AL031284, AL034562, AC003086, and AL122020.
	8347	856007	1 - 390		15 - 404	T91212, T79614, AA553354, AI144465, H75716, H75645, and AF085988.
HMMMAE45 HMMMAE16 HMMMAB96	8348	826488	1 - 772		15 - 786	AI915564, AI538833, AW449097, R33336, and R21762.
	8349	856007	1 - 390		15 - 404	AL119483, AL037777, AI267356, AA298789, AI133083, AI270177, AW069227, AA381754, AI754567, AI755214, AI362442, AI249688, AI754105, AI634187, AW265155, AI249519, AI085242, AA302971, AI754687, N63149, AA584438, AI457313, AC005519, AL078584, AC005412, AC005919, AC004921, AC003012, AC000025, AC002288, AC004492, AC006017, AC005529, AC002316, AC004922, AC007114, AC002303, AC005183, AC005694, AC004228, AL034379, AL022330, AL035415, AC003049, AC007227, AC006449, AC004799, AL049776, Z83844, Y18000, AP000212, AP000134, AP000030, AL117338, AC005527, AC005243, AC005015, AC004032, AL035443, AL021368, AC005220, AC007687, AC004983, AL049829, AC007298, AF001552, AC007225, AL022334, AF196779, AC006312, AC008149, Z94056, AC002287, M89651, AC004638, AL035422, AC005730, AC007688, AC004837, AC005874, AF134471, AC005081, AC006064, AL035410, Z98200, AL135783, Z99570, Z85987, AC004770, AC002352, AC002470, AC002302, AL034548, AC004796, AC005722, U91323, U78027, AC005899, AL008635, AC005553, AC004106, AL079342, AC004825, AC007537, AC002457,
	8350	856007	1 - 390		15 - 404	

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HMC1W93	8349	897377	1 - 293	15 - 307	AW238972, AW406916, AA075901, AA044211, H25630, H43485, AA287470, AA296869, AA296696, AA298795, R55519, H80718, H73675, AA034079, AA296826, AA187096, AA218811, AA297863, AA296837, R95168, N86960, R39644, T10507, AA485829, AJ342703, C00212, W95348, AA806231, AF161462, and AC002390.
HMC1Z77	8350	771795	1 - 345	15 - 359	R07250.
HMC1S34	8351	703691	1 - 483	15 - 497	T86231, T83384, and T86130.
HMC1K58	8352	752431	1 - 574	15 - 588	AA160383, AJ818161, AJ962470, AJ655470, AJ201401, AJ962522, AJ809442, AA757199, AA954406, AJ557476, W46315, AJ263049, AJ557453, AA332432, AJ867723, AA383667, AJ205764, AA370001, AA157926, AA884706, and T78360.
HMC1G46	8353	886903	1 - 415	15 - 429	
HMC1G66	8354	787512	1 - 203	15 - 217	AI159933, AJ971968, AA906691, AI183889, W79831, N92399, AA557293, AJ350318, AJ017848, AA127092, AI189367, AJ924445, AA911261, N70568, AJ273685, AJ291841, AJ912574, R49953, AA937786, AA988459, AA404424, AJ081962, W19157, AI129889, AA935718, AJ066610, and AF111170.
HMC1G39	8355	856222	1 - 484	15 - 498	W27128, and H14722.
HMC1R57	8356	734404	1 - 405	15 - 419	AJ304652, AJ347073, AJ343275, AJ261508, F26025, AA936207, N66083, AA769680, AJ867524, AJ262402, T99852, and AA854036.
HMC1M86	8357	846578	1 - 498	15 - 512	N58309, AJ741756, AA719678, Z39349, H77634, AA868804, AW183178, AJ033998, AA910754, AA837855, AJ310989, AJ753587, AA907745, AA424559, AJ015988, AJ290795, AA992451, AJ025107, AA806009, AA007654, AJ033216, AJ399750, T06491, AA917469, AA134955, AA702309, AA934480, AA873079, AJ097519, W90376, AJ818372, R05851, AA285180, AW118589, D56552, AJ474543, R98024, T03445, AA886062, AA533260, M78918, AJ468146, AA309446, AA424656, AA492384, AF132945, and AF112204.
HMC1M04	8358	927002	1 - 529	15 - 543	AA569402, AW070532, N38778, AW190781, AW340905, AA535216, AW023111, AA773463, AW237905, AA714110, AA828637, AA524616, AJ674840, AJ755202, AJ066646, AW272294,

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HMCDN93	8359	791555	1 - 340	15 - 354	AI889060, AW015362, AI423278, AI096899, AI498494, AI421575, H86117, AW015459, AI399718, AI972927, AA745122, R40242, AI669223, D87468, and AF193421.
HMCDN93	8360	757192	1 - 360	15 - 374	AI334327, AI312094, AI337819, AA506997, AA576525, H71553, and AA729906.
HMCAR04	8361	925591	1 - 551	15 - 565	AI048459, and T98081.
HMALZ77	8362	856266	1 - 330	15 - 344	AA111882, and T73731.
HMAIK06	8363	933960	1 - 395	15 - 409	W21990.
HMAJZ39	8364	751523	1 - 532	15 - 546	AA182941, and Z43441.
HMAJL09	8365	950168	1 - 633	15 - 647	AR007575, I18860, I18861, I55990, and I55991.
HMAIU90	8366	886821	1 - 531	15 - 545	AI393335, AI683302, AB008185, and AB008184.
HMAIQ20	8367	669436	1 - 446	15 - 460	H87256, H87307, AI640360, AI263034, and AI360741.
HMAIH15	8368	956705	1 - 527	15 - 541	AA585439, AI526194, Z28355, AI541508, AI541514, AI546855, AI525306, AI541523, AA585101, AI557807, AI525556, AI546999, C16300, AI541509, AI525316, AI546945, AI546899, Z30131, AI535639, AA585453, AI541510, AI541534, AI556967, AI540967, AI546828, AI557799, AI557796, AI541374, AI541365, AA585434, T11028, AI547039, AI546875, R28735, AA585476, R29445, AI526140, AI525431, AA585356, D61254, AI541535, AI040149, C15189, AI541307, AI041140, AL040464, AL040155, AL041346, AL041096, AL047012, AL041358, AI557787, AI041277, AL041163, AL041098, AL040621, AL043538, AL041324, AL044162, AL041086, AL043496, AL041296, AL041233, AL045725, AL040193, AI541017, AI557731, AL041197, AI526180, AL043612, T23985, AL040463, AL047219, AL041227, AL039915, AL047170, AL080031, AL040119, AL040553, AL040529, AL041292, AL041051, AL040322, AL041131, AL046330, AL045990, AL041133, AL040253, AL041238, AL041142, AL040625, R29177, AL040510, AL043467, AA585440, AL044186, AL047057, T23957, AL044037, AL040091, AL040128, AL040168, AL040255, AL040285, AL040342, AL046442, AL040332, AL040617, AL045684, AL040576, AL040745, AL038761, AL040370, AL043677, AL049018, AL040839, AL041752, AL047036, AL041159, AL043775, AL044165, AL043492, AL041602, AL043444, AL045920, AL047183, AL038838, AL045817, AL044074, AL041635, AL040458, AL044199, AL044187, AL040090, AL040263, AL040294, AL040075, AL040329, AL040082, AL044272, AL041186, AL040148, AL041730, AL041523, AL043627, AL041374, AL040052, AL045671, AL043845, AL041246, AL039338, AI525321, AL044064, AL038983, AL039316, AL043923, AL043814, AL043848, AL041459, AL043570, AL039744, AL041577, AL044258, AL046850, AL038532, AL040768, AL037727, AI541013, AL046994, AL040414, AL040571, AL040472,

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HMAIA55	8369	899404	1 - 1005	15 - 1019	AI380016, AA917719, AI990640, AA380953, and AI002739.
HMAHP37	8370	566344	1 - 428	15 - 442	U79131, and U79132.
HMAGT95	8371	795686	1 - 344	15 - 358	H19699, and Z57976.
HMAGS90	8372	788683	1 - 346	15 - 360	AA232761, and AA232130.
HMAGI39	8373	910152	1 - 367	15 - 381	AW445199, AI291885, AI291659, AI681688, AI796788, AI863432, AI371323, and AI586930.
HMAFF71	8374	760304	1 - 538	15 - 552	AA133358, AI025161, AW340752, W05217, AW402176, AA036844, AW444614, AI733576, and AL137679.
HMAFC96	8375	796348	1 - 436	15 - 450	H73609, AC002536, and AF125569.

HMABK93	8376	791549	1 - 750	15 - 764	AA861218, AA150260, and AA150251.
HMADF74	8377	944465	1 - 1131	15 - 1145	AA311043, H11578, R59755, AA927842, AA199784, AI000363, AI126309, R13187, AI693684, and AL096806.
HMABZ84	8378	975349	1 - 340	15 - 354	
HMABCV54	8379	922354	1 - 409	15 - 423	AI000925, AI261943, AA614341, AA532388, AI000930, AI742836, AW376738, AW136154, AW376570, and E08096.
HMABT55	8380	753560	1 - 444	15 - 458	N50809, AA931135, AA972697, AA401345, AI024270, AA873221, AW082806, AW025001, AI752742, AI138745, AI277497, AW452978, AI554935, H50235, AI911227, AI700463, AW303800, AI275531, AI241950, AI760168, AI095901, AA618048, AI936652, R09749, AA936697, AI199598, AI206725, AI830389, AA084391, AA987748, H64022, H06700, AI926722, AA988399, AA838228, AI357218, AI362511, AI362439, AA937768, AI879499, AI693589, AI366339, AI363966, AW363996, T91307, AW149618, AA025560, H15722, AA991841, AA970173, Z40694, AA663409, H20195, AW083589, AI963935, AA843550, H64785, AI243967, AA725384, AW449564, AW450568, AW339993, W96140, W92486, H41770, and AA018786.
HMABD66	8381	388074	1 - 370	15 - 384	
HL YHN64	8382	970747	1 - 577	15 - 591	N53558, AI078352, H49897, W00521, N30989, N57223, AA314759, AA431398, AA972343, AA593987, AA418304, AA101913, W90550, H67020, AW450639, N36463, AA120767, AI494530, H53270, H54554, H54238, AA011423, H66916, AA385267, AI784295, W07652, H84477, AI188087, AI379720, AA430152, and AC005859.
HL YHN40	8383	710825	1 - 468	15 - 482	H82097, H10880, and H96186.
HL YHL55	8384	731447	1 - 447	15 - 461	R32479.
HL YHK64	8385	746310	1 - 456	15 - 470	H53572, AA745885, H28445, AI494060, AI676167, AA889745, AI866665, AI245303, AA703022, AI016995, AW264349, AI254741, AI287476, AW160916, AA580663, AI345688, AA742390, AA641818, AL138406, AI590043, AI309380, AI567846, AI537244, AW075382, AI538885, AW151136, AI432644, AI500061, AW079432, AW022808, AI859991, AI953765, AI037454, AI623941, AW022636, AI287233, AI702527, AA766077, AW161579, AI540674, H89138, AI587121, AW304497, AW268759, N29277, AI673278, AI918449, AL118781, AI473451, AA811142, AI538764, AI868204, AI866461, N63128, AW161156, AL037602, AI446373, AI969655, AW020095, AI499890, AW021717, AI890907, AI345745, AA676361, AI929108, AW020419, AL039086, AL047344, AI581033, AI961278, AI537274, AI432570, AI686576, AW020693, AI340603, AL037582, AI537677, AI621341, AI524654, AI866465, AI698391, AW162194, AI284517, AI560545, AI923989, AI241901, AI783530, AW020397, AW190297, AL135024, F26535, AI371251, AW163834, AW021373, AI289791, AI888621, AI473536, AI589428, AI696603, AL046466, F27438, AI281757, AI270295, AI471282, AI636619, AI933992, AW082532, AW274343, AW051088, AI472484, AI633125, AI829990, AI538564, AI553645, AI036631, AI915291, AW152182, AW274318, AI582932, AI872423, AI540606, AI434731, AI524179, AI521560, AI889189, N52016, AI539800, AW195253, AI309306, AW104141,

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HL YHK61	8386	932994	1 - 1027	15 - 1041	AI628843, AW167099, AI093592, AI926603, AA470016, AI986035, AI313500, AA617710, AI027777, AA865403, AA514353, AA782005, W69345, W69267, AA860421, W01351, H30472, AA423925, AW131013, AI299627, AA423887, AA034305, AA781518, AI160307, AI446603, AA922534, AA533814, W16698, AW169172, AA654163, AA412735, N69522, AI440188, AI610236, AI752781, R26875, AI306695, AA412294, AW409605, N79834, AA459402, AI049694, AW068125, AA534481, AA745698, AI347601, N54138, AA626929, R72510, AI865836, AW044069, R94735, AA024807, R72511, AA932913, AA430220, AI383150, AI539588, W67475, AL044134, N58666, AI223230, AW088334, AI186385, AI902383, H72504, AA295920, W38450, R70436, AA545735, AA491113, AL044135, R11021, AA834248, W67476, N58200, H72902, AA459627, R53036, R69450, AW368627, AI902360, H24955, AA431234, AI205760, AA552310, AA861991, R27103, C17844, F04994, H77299, D29280, AI436086, H25748, R53035, AA411966, AI648587, AA432254, AI002434, AI016462, R94818, AA865593, AI051263, AI926118, AA643144, R24912, R37917, AA443912, H24995, R72497, R72498, R11020, and X52574.
HL YHK34	8387	703776	1 - 505	15 - 519	R67395, AA865763, AW238410, AI269636, AI636456, AI110306, AL119049, AI929108, AI475371, AL041772, AI567351, AI537273, AI492540, AL045500, AL119791, AL079963, AI497733, AI433157, AI036901, AI537677, AI868831, AI285735, AI343059, AI349933, AA225339, AI696626, AL036802, AI431909, AI433976, AA738104, AI340582, AI340603, AI800138, AI280607, AW238730, AW088899, AW151136, AL121328, AL119863, AW071417, AL121365, AI064830, AL044207, AI909642, AW020095, AI919107, AW162071, AI500077, AI288285, AL040241, AL036396, AW074993, AI888953, AI815855, AI349645, AI344817, AW301344, AW268253, AI699865, AI312152, AI366992, AI312428, AI336575, AI349937, AI499652, AW087445, AW089572, AI802542, AA640779, AW103371, AI349256, AI269862, AI815232, AI697324, AI280732, AI888944, AI174394, AI580190, AI951076, AW302965, AI524671, AL121270, AW167222, AI364788, AL036187, AI680162, AI251830, AI869377, AI538716, AW078680, AI349772, AA613907, AI249877, AW129106, AI446373, AL041573, AW117882, AW020164, AL038605, AI340519, AL120853, AL048656, AI440426, AA427700, AL040169, AI610557, AL036361, AL047042, AW163823, AI521012, AI567360, AW071349, AI921248, AI627748, AI348897, AI619502, AI682743, AI687728, AW150578, AL119748, AW026882, AL135661, AI620284, AI345608, AW406745, N80094, AL036736, AI702073, AL135065, AI612913, AW168485, AI818683, AI499393, AI680457, AI783504, AW268251, AI500523, AI539771, AI560012, AI250663, AI343112, AI680498, AI922901, AI349598,

AI500659, AA761557, AI345471, AL047763, AI469532, AI439762, AI906328, AL040827, AI934035, AI284517, AI633419, AL036274, AA572758, AI631273, AI345735, AI866780, AI358701, AI318569, AI436429, AI923989, AW130863, AW151138, AI591316, AW303152, AA585422, AI433037, AI345253, AI597918, AI493559, AL049085, AI608676, AI689175, AW084219, AW103886, AI952920, AW162194, AI933785, AI554218, AI866002, AW079572, AW268220, AI702406, AI828731, AA715307, AW079159, AI619716, AW172723, AI679724, AA658033, AW087938, AI499285, AI934147, AI873644, AI687065, AI612759, AW089179, AW130930, AW151729, AI867042, AI696819, AL043981, AI282903, AI566630, AI432040, AL040243, AI349614, AL036403, AI280661, AI859464, AI445990, AI659795, AI537617, AI919345, AI520809, AI569309, AI922577, F36033, AI349004, AI494201, AI571909, AW082594, AI478123, AI207510, AI352497, AI564749, AI689420, AI537515, AI538342, AI284131, AW198075, AI554821, AW088134, AI366549, AI824576, AI636719, AI824746, AW189415, AI539153, AI343091, AI500553, AI280670, AI097410, AI590686, AI587606, AW163834, AI468872, AC004900, I89947, AL122050, I48979, AF118070, AF090900, AL133640, AF113694, AF104032, AF090934, Y16645, AF125948, AF090903, AF090901, AL050138, AF090943, AF125949, AL096744, AL049452, AL050024, U42766, Y11587, AF113013, AL110221, S68736, A08916, AF097996, AF078844, AL050393, A08913, I48978, Z72491, I89931, AL133075, AL117457, AF158248, AL050146, AI2297, AF113019, AL049938, S78214, AJ242859, AL133557, AL133016, AF111112, AR038969, Y11254, AF113691, AL117460, AL133067, L31396, AL080124, AL133072, L31397, AL080060, AL133104, AF113690, AF113677, E15569, AF090896, A08910, L19437, AL133080, I49625, AL137459, A08909, AJ012755, AR011880, A93016, AF118064, U67958, AL137648, E07108, AL122121, U72620, AL122049, AL049283, AL110196, I42402, AR059958, U96683, AL080137, X72889, AF100931, X87582, AL137271, X84990, A45787, AL133606, AL137527, AL080074, E04233, AL050172, AL117583, AL117585, AL137463, AL122110, E03348, AF113689, AL049314, AL133077, AL050108, AL133014, AL133565, AL137476, AL137556, AL133093, E05822, AF113699, AL137538, AL117394, AF079765, A08912, AF017437, E12747, AL137526, AC007458, AL050116, X82434, AF087943, X70685, AF162270, AF113676, U80742, AR038854, AJ000937, AL080159, AF111851, AF183393, Y14314, AL050149, AL117435, E07221, AF106862, E07361, I09360, AL137557, AF017152, AL080127, AL050277, AL110225, AL122093, AR000496, AL049430, U39656, AL137533, I00734, X63574, AF061943, S61953, AB019565, AF118094, E00617, E00717, E00778, AF177401, X65873, AF091084, AF067728, A65341, AL133645, E02349, AF210052, Z82022, AF153205, AL122098, AF185576, AF146568, AL133560, AL122123, I26207, AL049382, AL117440, AL133113, X93495, U91329, U00763, AL049466, L30117, AL133098, AL133568, AF079763, Y09972, AF081197, AF119337, AL137550, A93350, AF026816, A77033, A77035, I33392, AL049464, U35846, AL117432, A03736, AJ006417, AL110280, X98834, I03321, A90832, AL137478, X96540, U88966, A58524, A58523, AF003737, AL049300, AL137560, AF132676,					
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HL YHJ37	8388	708625	1 - 466	15 - 480	H11582, and AC002433.
HL YHJ02	8389	919201	1 - 522	15 - 536	AA992212, and AI799979.
HL YHI05	8390	953925	1 - 476	15 - 490	AA830774.
HL YHF62	8391	743058	1 - 357	15 - 371	T47077.
HL YHE85	8392	784140	1 - 500	15 - 514	AA210805.
HL YHA48	8393	721372	1 - 489	15 - 503	AA251190, AA805977, AA765489, AA810907, AL118823, AA081462, H18914, AL135357, AA493136, R17793, AL118862, AA654661, A1524360, AI745151, AI755214, AA845209, AI284092, AA984114, AI754567, AA845659, N71685, AA002063, AI754105, AA584125, N57739, AA748833, AW179306, AA643801, AA548356, AL138182, AA282820, AA126450, AA664320, AI683446, AI270096, AW179305, AL049834, AL031733, AC009399, AC005829, U91323, AL034418, AL049765, AC002544, AC004031, Z83822, AL135744, AP000251, AL023803, AC008085, U95742, AC007065, AP000031, AL049610, AC007938, AC006442, AC000004, AP000134, AP000212, AP000030, AC007216, AC009044, AC006241, AL049829, AC005874, AF134471, AL049712, AC006509, AC005823, AL031587, Z85986, AC005488, Z86090, AC005233, AC005736, AC004837, AC007240, AF064861, AL132777, AL117338, AP000213, AC005755, AL078638, AP000135, AC007011, AC006111, Z83840, AC005037, AC004098, Z98036, AC007731, AC005005, AC007686, AL022165, AP000688, AL023799, AP000356, AC008101, AL031584, AC005484, AC003664, AC003982, U52112, AL035681, AC006441, AC007386, AL031053, AC002375, AP000692, AC005324, Z98304, AL022316, AC005899, AB003151, AC006958, AC005412, AC003098, AC007014, AC005225, AF107045, AC003029, AC005740, AL022574, AL121652, AC004821, AC005911, U95743, AF196779, AL031427, AC004905, AC006064, AC007707, AC003688, AC006511, AC007566, AC008079, AC006146, AC005180, AC002119, AC005102, AC004615, AC005523, AP000493, AL031311, AC004032, AL035071, AC004859, Z94721, AC004966, AL049576, AC005914, AC006317, Z98946, AL121658, AC004526, AC009247, AP000557, AC007934, AC005399, AC004895, AF111168, AL122020, AC007314, AL031431, AC005018, AC005091, AC005971, AC002565, AC005924, AC006581, AP000556, AF024533, AC004605, AL021918, AL035587, AL034417, AC005215, AC004134, AC006084, AC008009, AL021154, AC002477, AC008372, AC004257, AP000513, AC006515, AF001549, AC005545, Z82172, AL022323, Z75888, AC006167, AC005520, AC004167, AC007262, Z93017, Z81364, AC004491, AC004150, AC006079, AL096791, AL110502, AF051976, AL022163, AL049646, AL031230, AL109842, AL022476, AC006538, AC009516, AL078477, AL035089, AL096712, AC007666, AC004813, AC005996,

HL YHA04	8394	614848	1 - 369	15 - 383	AC002492, AL109754, AC002996, AC004858, AC005031, AC006571, AC004832, AC007276, AC004675, AF011889, Z99129, AL121595, AC005788, and AC005548.
HL YGZ71	8395	760115	1 - 1102	15 - 1116	H60556, and T71255.
					AA043495, AI951943, AW193804, AI694511, AI128000, AA412019, AI004612, AI652122, AA149258, AI184929, AI831205, AI914140, AI825243, AI828310, AA720916, AW016629, AI827812, AI696053, AI631553, AI962314, AI671447, AI917812, W16795, AA338943, AI968277, AI967940, H24914, AA149273, AA338944, AW196482, AA973869, AI962471, AA905468, AI394723, AI874337, and AC004707.
HL YGZ11	8396	966503	1 - 631	15 - 645	N69782, and AI282808.
HL YGY60	8397	740081	1 - 510	15 - 524	AA699729, W04930, AI200342, AI742692, AI571717, N31641, AA255846, AA158572, AI672122, H09986, AI872640, T97584, R11183, AL050099, AF090421, and AF074393.
HL YGW95	8398	795682	1 - 547	15 - 561	AW026243, AI040710, W84710, AW008549, AA573109, AA236651, and W78856.
HL YGR56	8399	733123	1 - 623	15 - 637	AA149383.
HL YGQ29	8400	689972	1 - 423	15 - 437	R37228, R21422, and AI336270.
HL YGQ11	8401	966539	1 - 335	15 - 349	AA251264.
HL YGM76	8402	769835	1 - 438	15 - 452	AI914239, AA164188, AA911297, and AI299137.
HL YGM08	8403	958820	1 - 96	15 - 110	R25343.
HL YGJ76	8404	685240	1 - 552	15 - 566	T48433, AI767091, AC002300, and AC007637.
HL YGH51	8405	871634	1 - 451	15 - 465	R07073, and AC009363.
HL YGD69	8406	754841	1 - 289	15 - 303	AA829595, and R96050.
HL YGB38	8407	709187	1 - 403	15 - 417	H60939, and H60852.
HL YFW38	8408	709185	1 - 378	15 - 392	AA011710, R07553, H90263, and AC003006.
HL YFU24	8409	856392	1 - 523	15 - 537	T93162.
HL YFR17	8410	859567	1 - 779	15 - 793	AW139151, AI871342, AI763244, AI452467, AI553909, AA948409, AA010128, AI222204, AI143693, AI422032, AI273370, AI272906, AA854857, AI139496, R42952, AI192619, AW205762, AA853531, AI498208, AA736392, Z41265, AA010127, AI073814, AI928656, R64374, and R64373.
HL YFP56	8411	871637	1 - 510	15 - 524	AA811657, AI342538, AW204675, AA748459, AA252369, and AL109939.
HL YFO29	8412	690381	1 - 508	15 - 522	AA058482, AI784112, AL022476, and AC004924.
HL YFE11	8413	966519	1 - 641	15 - 655	AA777743, U95742, and AC007216.
HL YFD51	8414	725116	1 - 536	15 - 550	H09377, AW405976, AA281160, AB018260, and AC007868.
HL YFC54	8415	729299	1 - 528	15 - 542	H81232.
HL YEV46	8416	889678	1 - 453	15 - 467	AW016081.
HL YEV42	8417	856395	1 - 571	15 - 585	T95746.
HL YET54	8418	729406	1 - 542	15 - 556	R94090.
HL YET48	8419	721501	1 - 416	15 - 430	R19796.



HLYE17	8420	662764	1 - 406	15 - 420	R10240.
HLYES45	8421	717640	1 - 629	15 - 643	R13145, AW402725, and AA322385.
HLYEP59	8422	739151	1 - 523	15 - 537	T72749, and T78529.
HLYEO83	8423	781038	1 - 623	15 - 637	AA088553, W27797, AA085803, AA088387, and AA811260.
HLYEO37	8424	708623	1 - 622	15 - 636	H73386.
HLYEL71	8425	760220	1 - 536	15 - 550	AA234738.
HLYED44	8426	716430	1 - 341	15 - 355	AA074364.
HLYEC21	8427	670678	1 - 411	15 - 425	N55397.
HLYEB11	8428	966748	1 - 338	15 - 352	H81361, T86913, R11275, and T81629.
HLYEA92	8429	561537	1 - 390	15 - 404	AC004904.
HLYEA86	8430	488801	1 - 416	15 - 430	H60327.
HLYEA70	8431	943886	1 - 739	15 - 753	W79930, AA233418, T87364, AI765694, AI042017, AI672297, T87365, R94396, AI082728, R78669, R32116, AI768587, AI025761, AA564574, AI142898, AW026724, AI183414, AW183773, AI075126, AA127962, AI910695, N34843, AI628624, AW192585, H64364, H48681, AW263057, R32115, and H65991.
HLYEA49	8432	722787	1 - 319	15 - 333	T63328.
HLYDY72	8433	761359	1 - 465	15 - 479	T62223.
HLYDX40	8434	856401	1 - 447	15 - 461	H97055.
HLYDV57	8435	800224	1 - 196	15 - 210	AA015905, and Z94054.
HLYDU14	8436	658035	1 - 431	15 - 445	T69478.
HLYDT27	8437	856405	1 - 591	15 - 605	AA776723, AA683336, AI767217, and AI286332.
HLYDT09	8438	972424	1 - 399	15 - 413	
HLYDQ75	8439	767176	1 - 1007	15 - 1021	AA203659, and AW241874.
HLYDO45	8440	717079	1 - 430	15 - 444	H52699, AI792315, AI792132, AA602938, AI821784, and AA632549.
HLYDK95	8441	973370	1 - 448	15 - 462	Z97832.
HLYDI03	8442	923826	1 - 374	15 - 388	D29106.
HLYDG74	8443	939025	1 - 468	15 - 482	H13358, Z42104, H17403, and AI016363.
HLYDG42	8444	713579	1 - 394	15 - 408	H48653, and AC005971.
HLYDF07	8445	952940	1 - 531	15 - 545	AI475857.
HLYDD60	8446	740212	1 - 469	15 - 483	AA255936.
HLYDB08	8447	959076	1 - 375	15 - 389	AA704579.
HLYCX70	8448	757087	1 - 743	15 - 757	AW136494, AA975914, W01691, T78992, H82694, and AI696519.
HLYCX34	8449	703910	1 - 507	15 - 521	R93349.
HLYCX18	8450	943714	1 - 444	15 - 458	N23033, N28696, AI417970, AI379543, AI288223, AL119457, AL119464, AL134536, U46351, AL119324, AL119401, AL134525, AL119341, AI142131, AL037205, AL119484, AL134902, AL134531, AL134527, AL119355, Z99396, AL119418, AL042433, AR054110, and AR0666494.

HLVXC02	8451	919563	1 - 486	15 - 500	AI149248, and AC004217.
HLVCU59	8452	679219	1 - 647	15 - 661	N50536, N50591, F25082, F31286, AA708834, AI128677, AI141858, AA496237, AI204314, AI087869, F27745, AI096570, W58285, AW044334, F24116, N93239, F34390, AI097157, N77900, AI694918, AI302021, F28502, F24691, AI216592, AA496229, AI215933, AI185557, N91784, AI015748, AA369658, AI383691, F21399, N93026, F35775, AA249321, F28306, W93864, F24386, AI911727, AL031778, AF161698, and AF086496.
HLVCQ43	8453	825509	1 - 776	15 - 790	AA533040, AL096701, Z92542, AC003007, AC002565, AC007308, AC006111, AC008079, AC007193, AC004526, AC006077, AL031283, AC005015, AC005081, AL133246, AC008101, AC004263, AC005399, AC004882, AC006211, AL020997, AP000512, AL133485, AC016831, AC002365, AC004821, AC007225, AL049776, AF095901, AC004382, AC005519, AC002470, AC020663, Z95116, AC004491, AC004851, AL020993, Z97053, AC005067, AP000047, AC006368, AC006950, AC002472, AP000065, AL049869, AC005089, AC006449, AL121658, AC005180, AC002288, AC005280, AL080243, AC005632, AL049872, AC005057, AC005071, AC005972, AC005037, AC007637, AC004966, AC002126, AC005529, U62293, AJ011930, AF124523, AP000689, AF227510, AC007993, AC005225, AL031295, AL022237, AP000115, Z84469, AC002504, AC005839, AF196779, AC004084, AC007386, AC004859, U91321, and AC005756.
HLVCP63	8454	856424	1 - 354	15 - 368	AA572949, AI808652, and AI911457.
HLVCO03	8455	923844	1 - 658	15 - 672	AA131813, AA131743, AA255495, AA256703, and AL021978.
HLVCM14	8456	657589	1 - 387	15 - 401	R95898, AI719970, AF130247, and AF165138.
HLVCL69	8457	914887	1 - 495	15 - 509	H81370, AA156982, and AA045946.
HLVCF51	8458	725067	1 - 435	15 - 449	T99595, and AI563950.
HLVCF37	8459	949401	1 - 1327	15 - 1341	AL138431, AL042377, AI871691, AI423034, AI419419, AW020150, AI380617, AI801479, AI440117, AL043052, AL044489, AW237905, AI904840, AL118843, AA282951, AW020094, AA225406, AL041375, AW021399, AW272294, AL037910, AI066646, AA551519, AW268322, AI279417, AI800426, AL135357, AA594157, AL138455, AA713946, AI242011, AI635028, AW238712, AI479148, AL041924, AA714110, AA760655, T05118, AI054418, AW275432, AL110373, AI356440, AA720582, AA584765, R98002, F30310, AA286836, AI554471, AA847395, AI445224, AI049643, AI095197, AI270177, AI032875, AA654874, AA808153, AI955029, W02749, AI086646, AW340905, AL042753, AI445297, AI755202, AL022165, AC002558, Z86090, AF205588, AL035420, AC006965, AC004832, AL022721, AC005779, AC005088, AC002563, AC005005, AF196779, AC004987, U91323, AP000116, L78810, AC007283, AC002991, AC010077, AC002477, Z99716, AC005527, AC005409, AP000042, AL022238, AC004383, Z95116, AL035405, AC006480, AC004813, AC002430, AC006211, AC005081, AP000045, AC007899, AC004858, AL096791, AC005291, AC006441, AC007055, Z95114, AC007384, AC002369, AC002401, AC005519, AL008731, AC020663, AC004874, AL023584, Z82206, AL031005, Z84487, U47924, AC005940, AC005180, AC004662, AL008582,

					AL121603, AC004033, AC002288, AP000311, AC006312, AL109798, AC005225, AL049872, AC005015, AF001549, AC005365, AL136295, AC005971, AP000289, AC007934, Z84466, AC005871, AL031311, AC005086, AC005902, AP000110, AC006241, Z85996, AC004883, AC005071, AC004125, AC012384, AP000692, AL031228, AF001548, Z98036, AC007193, AC005072, AL035659, AP000117, AC007563, AC003663, AC005529, AL050318, AF047825, AC004953, AL109827, AC002044, AL022318, AC004703, AF017104, AC002554, AC005663, Z93244, AL032821, AC007225, L44140, AC005829, AJ003147, AC006948, AF038458, AC005911, AC006121, AC006511, AL020997, AF053356, AL031597, AC002504, Z98743, AC002394, U95739, AP000501, AC006323, Z94056, AL008726, AC004084, AC004520, AL122020, AC005006, AC007057, AP000313, AL031680, AC005666, AC004814, AC005726, AL109952, AC004685, AF024533, AC002565, AL049552, AL008718, AC005696, AL031281, U91321, AP000252, AC005207, AL031667, AC004408, AC005037, AC004492, AL022311, U96629, AC016830, AC006285, AL133163, AC007216, AL021977, AP000030, AC002314, Z82203, AL049779, AC007676, AF129756, AL132712, AP000356, AC005800, AP000050, AC004876, AL121754, AC004851, AC005695, Z77249, AC004672, AP000103, AL034421, AL031846, AL080317, AC005900, AC005484, AC005332, AC006255, AC004263, U62317, Z98304, AC002544, AC004878, AL023653, AC005190, AL049694, AC002365, AF134726, Z93017, AL121655, AC006538, AF111168, AP000133, AP000211, AF030453, AC006449, AC000052, AC005730, AL022334, AC004583, AC003015, AC006014, AC005933, AL021918, U91326, AC003029, AC004859, AL035587, AC002375, AC004686, U95090, AL009181, AC007386, AL078581, AL049780, D88270, AC007298, AC003072, AP000167, AC004881, AL049856, AC004765, AC004560, AC004139, AC007686, AL109984, AC004966, AC004991, AC003043, AP000301, AL049869, AC004983, AL022315, AC005520, AF001550, AC005500, Z98742, AL035455, AC007151, AC002551, AC010072, AC007227, and AC007731.
HL YCC19	8460	668745	1 - 472	15 - 486	H53582, and AP000692.
HL YCB86	8461	785544	1 - 444	15 - 458	R78255.
HL YCB11	8462	967162	1 - 573	15 - 587	AA149546, AA115127, AI417248, AA114945, AI283409, AA164347, and AC006504.
HL YBX91	8463	790234	1 - 764	15 - 778	AA262444, AA210704, AA262445, and AA825796.
HL YBV44	8464	485853	1 - 479	15 - 493	
HL YBN17	8465	463988	1 - 519	15 - 533	AA259030, and AA741004.
HL YBM44	8466	715879	1 - 442	15 - 456	H52816, and H52779.
HL YBJ17	8467	664101	1 - 415	15 - 429	T66013.
HL YBH84	8468	856444	1 - 486	15 - 500	AL046592, W26468, AL039255, AB023228, and AL080133.
HL YBH68	8469	586582	1 - 684	15 - 698	
HL YBG85	8470	783508	1 - 472	15 - 486	T98972, AI052248, AA770344, and AI862542.
HL YBA50	8471	880734	1 - 556	15 - 570	AA827695, and AA833754.

HL YBA06	8472	935611	1 - 527	15 - 541	AA736563, AA642445, AA838190, AA724333, AA669153, AA380354, AI537772, AI114701, AW439555, H18914, AL119800, AI950671, AW151713, AW302909, AA665146, AW021161, AW304580, AW440545, AW301385, AA704393, AA832077, L35667, AC006538, AP000556, AP000557, AL009031, AF135187, AC005612, AL136297, L76568, U07562, AC007199, Z85987, AP000065, AL050348, AL031714, AC004020, AC006285, AC002326, AC005815, AL133239, AC016025, AC006126, K02579, AC003070, AC004975, AP000509, AL033523, AL031279, AP000690, AC002119, AC002301, AC005211, AF207550, AC004262, AL033517, AC005071, AP000359, AC007128, AC005933, AL024498, AC004051, AP000208, AP000130, U89337, AL031281, AC005952, AC005005, AC004590, AC004017, AC012083, AL022322, AC004887, AF007544, AL133102, AL049636, AC004832, AP000691, AF196969, AF217403, AC005519, AL035684, AC005067, AF111169, AC005377, AL022332, AC004983, AL022330, AC005324, Y07848, AL031664, AC005901, AC004813, AL079304, AC003969, AC005783, AF067844, AL020996, AF200465, AP000030, AC000026, AL024474, AC007639, AC004659, AC007637, AP000553, AL008721, AP000246, AC002059, AL050341, AC004751, AL109802, AL022100, AL080313, AP000134, AP000212, AP000964, AF190465, AL021392, AL049766, AC004775, AC005730, AL079301, AL024508, AL021155, AL022237, AC004458, AC004694, AL022333, AL008582, AL023575, AC005484, Z77249, AL009179, AL049795, AC005907, AL096794, AC006047, AC006509, AP000695, AC012384, AC005756, AC006211, AC007686, AC006013, AL034451, AL139054, AC005585, AL031680, AC005702, AC005081, AF031078, Z99716, Z84466, AL031663, AC004235, AB022785, AL031297, AF030876, Z82189, AC005578, AC002476, AP000008, AC005379, AC004921, AL049611, AC005940, AP000697, AL049712, AC004985, AP000967, AC007011, AC007546, AF030453, AC002070, AD000671, AC005799, AC002565, AL008734, AC006071, AC007790, AC007899, AC004889, L44140, AC001227, Z86090, AP000704, and Z97989.
HL YAX75	8473	767225	1 - 342	15 - 356	AC004242.
HL YAX32	8474	699337	1 - 188	15 - 202	AI926931, T92757, and AC004984.
HL YAU15	8475	782335	1 - 570	15 - 584	AA693492, AW404616, W15342, AA081452, T87195, AA360189, AI984687, T87282, and AL117352.
HL YAS35	8476	856469	1 - 430	15 - 444	AA703693.
HL YAR25	8477	678179	1 - 470	15 - 484	AA193337.
HL YAQ92	8478	792770	1 - 388	15 - 402	AI557306, AI623716, AA831121, AA687968, AA768629, AI458826, AI280154, and N42105.
HL YAQ70	8479	757235	1 - 793	15 - 807	R93501, R91736, R92164, and R93500.
HL YAQ69	8480	754229	1 - 329	15 - 343	R38112, and AL109679.
HL YAN68	8481	815950	1 - 365	15 - 379	AL109628.
HL YAN21	8482	854034	1 - 330	15 - 344	
HL YAN10	8483	964834	1 - 651	15 - 665	AA487424, AA578890, and AI524037.
HL YAL58	8484	736097	1 - 593	15 - 607	H10627, and R15002.

HLA22	8485	856473	1 - 443	15 - 457	AA847181, AA470533, AA484373, AW243954, AI821918, AI821881, AI268334, AI268336, AI805363, AA191659, AA507912, AI470431, AA583218, AA715805, AA583229, AA600869, AA605272, AI038936, AI065038, AI805547, AA683238, AA527209, AI470437, AI500453, AI250083, T60681, AW002350, AW102846, AA468022, AA501718, AI933259, AW277171, AA757775, AI801482, AA326356, AI460009, AI908093, AA811208, AI079683, AI469599, AA947454, AA351235, AA714110, AA578907, AA308328, AA420998, AI817976, AA421078, AI669046, N84446, AA651632, AA492391, AA469451, AI031228, AP000512, AI035530, AC002314, AC000003, AC007666, AI031005, AC005387, AC004821, AI050332, AC005231, U07561, AC005089, AC005015, AI021366, AC005919, AI133245, AC007225, AC005041, AF165926, AC007686, AC005971, AF207550, AC007364, AC005480, Z83840, AC002418, AC005066, AC004806, AC004659, Z95114, AC005102, AI139054, AP000553, U85195, AI133448, M63796, AC004148, AI049776, AP001137, AC007536, AC004972, AC005071, AI135744, AC005250, AP000557, AC006270, AE000658, AC004560, AI096703, AC004386, AI031848, AP000348, AC004098, AP000347, AC004858, AC002073, AI009181, AF053356, AC005034, AC004804, AP000688, AC004878, AC005324, AI049795, AC016025, Z93017, AC005399, AP000359, AC004019, AF129756, AC006064, AI031597, AC005330, AC020663, AC004883, AC005412, AC003041, AI049839, AC005393, U95742, AC005736, AP000010, AP000152, AC004895, AC005519, AF111168, AC007066, Z97054, AI022476, AC002558, AC007216, AI031680, AI049745, Z84474, AP000146, AP000337, U47924, AC004638, AC006285, AC005410, AI022724, AI050338, AI031777, AC005880, AP000117, AI022238, AC004797, AI031283, AI031587, AI031055, Z92542, AC007387, AC009247, AC004967, AI031311, AC007050, AC005484, AC005291, AC002126, AI080242, AF069489, AC002470, AI024507, AC002350, AI022237, AF109907, AI031662, AC004913, AI003147, AI021707, AF196969, AC002563, AI022316, AC004381, AP000263, AC002312, AC004760, Z93241, AC006130, AI035450, AC004912, AC000353, Z84469, AI078581, AF031076, Z86090, AC005215, U29953, AC005740, AI135783, AC007308, AP000556, AI117354, Z85986, AI049766, AC006315, AI022320, AC006312, AI121653, AC003664, AI049569, AC004755, Z99716, AC000079, AC004848, AI049761, AC002553, AC002565, AI034379, AI132987, AP000692, AD000812, AP000087, AC000026, AC004813, AC005921, AI008720, AI031668, AC005500, AC004167, AC005225, AI117258, AC004998, Z99128, AC003029, and AI121934.
HLA11	8486	967173	1 - 327	15 - 341	AA809368, AW190881, and AI240461.
HLAK36	8487	708028	1 - 356	15 - 370	T92768, and AA682689.
HLAK34	8488	421604	1 - 430	15 - 444	AA013385, W96162, H84095, AA059069, AA054036, H84089, H86124, AA018232, AA018236, and AA058598.
HLAJ49	8489	723039	1 - 422	15 - 436	W24486, C06267, R42858, AA978262, AA505146, AI636820, AI143214, AA045249, AI677860, AA491378, AA255801, and AI031297.
HLA59	8490	888232	1 - 427	15 - 441	

HLTHS37	8491	708613	1 - 789	15 - 803	T84485, and T84484.
HLTHS02	8492	856560	1 - 346	15 - 360	T81238.
HLTHC37	8493	708620	1 - 625	15 - 639	R51493, and A702381.
HLTGT83	8494	780903	1 - 446	15 - 460	R58966, AW173238, AW188064, AA847255, and AI808879.
HLTGT36	8495	708027	1 - 863	15 - 877	AW131623, W69435, W69518, AW020239, AW449813, AI381962, AW166061, and AB020725.
HLTGS17	8496	662409	1 - 490	15 - 504	H66393, AA077817, AI357551, AA342901, F19258, AI914706, AW265197, AW074398, AI561335, F31204, AA228329, AA515128, F37286, N71724, AA368745, AA077952, AI886176, AW276435, AA654627, AA714140, AW406659, AA304977, H55859, AI249997, AI305547, AI533983, F29989, AI610159, AI184226, AI345518, N23649, AA584749, AI613280, AA443065, T71998, AI284640, AA580662, AA650244, AW265654, AI003734, AI989742, F17518, AA340003, AI041368, AI287528, AI349874, F28576, AI358229, AI061334, F36273, AW438643, AI569086, AA515224, AI469172, AW406755, AI471481, AI298281, AW270284, AI365988, AA601270, AI557323, AA578154, N43757, AI473090, AA879053, AW151884, AA743956, AW337985, AI801600, AI951928, AI079910, AI286264, AW339687, AA299601, AI872421, AW130799, AI951889, AI445436, T12272, AI890052, AA127636, AI138265, AA450199, AI963786, AI635272, AI708009, AI587006, AA729264, H64560, AI299050, AA341228, AW340844, AI345675, AA665192, AW102955, AI921649, AI079645, AW021747, AI345681, AW168433, AI225141, AW022046, AI801591, AI344844, AI274692, F33566, AA658235, AI807372, AA641103, N25296, AI168185, AI421213, AW274349, AI376100, AI816537, AA745560, AI433187, T06556, AA295899, AW157005, AI824562, AW188544, AA501344, AA745431, AA745410, AI015912, AI499503, AA747472, AI028510, AA483204, AI471464, AA758934, AA605274, AW303196, AI042856, AW301350, N69962, AA626637, AI471487, AA558269, AW074059, AF177861, AA776609, AI68846, AI356904, AI049634, AI340453, AI922654, AI564284, AI537955, AA176924, AC004142, U02048, L13709, M87918, L13713, L13714, AC006379, AC006241, AF002991, AC007488, AC006221, U52427, AI096775, D83989, AC004949, S42659, AC005003, AC005944, U02058, M87919, M87923, AI023284, AC006597, AC004027, AI121603, X55932, AC005722, AI023879, AC005485, U18393, AI035494, AC005225, AC002564, AF077058, Z50860, AF053356, Z49237, AI023807, AP000432, AC005091, AC004998, AC005332, AI050312, S70694, AC002429, AC002347, AC006076, AP000082, AC007750, Z84721, AI031005, AC006538, AB020865, AP000346, U14702, AC009225, U95742, AC002059, AC005771, AC004232, AE000662, U02063, AC003681, AC007226, AI109865, L48472, AI049871, Z83849, AC004028, M94081, AP000431, AC007681, AC005694, AC007917, X55922, AI049829, AI049759, AI050333, AI096702, AI121653, AC004236, AC003954, AC005237, AC005324, I51997, AC009247, AC005032, Z97183, AI022318, AI121658, AC005610, AC005913, AC004765, U80017, AC002984, AC004927, AI078614, AP000128, AP000206, U52112, AP000351, AC004638, AP000114, Z83840, AC005527, AC006537, X55926, AI034400, AC002312, AC004678, AI021918, AC002116,

HLTGR28	8497	693990	1 - 616	15 - 630	<p>AC005330, U73634, AC002480, AP000305, AC006312, AC006285, AC004814, AP000474, AF147277, AC007358, AC004813, AC004975, AL035681, U14703, AL035415, AC005249, AL080243, S70697, AC004799, AF001298, Z97989, AL118507, AC016025, AC006160, AC002310, AL023575, AL009181, AL022323, AF045555, X13921, AC004596, M87916, AC002381, AC005529, AC004460, AC005053, AC006255, Z82173, AL121655, AL031427, AC007057, AC006130, U75285, AC006111, Z82975, AL022302, AC005895, Z84474, AJ003147, AL109802, AC010205, AP000047, AP000245, AC002425, AC005777, U14689, AC009069, AF003627, AF121898, AL031665, AC007676, AF006752, AL035703, AC000097, AC005924, AC007298, AC002563, Z68869, AL080248, AC007304, AL133297, AL109807, AL033522, X53550, AC000379, AC006039, AC004645, AL021879, AC006547, AP000503, AC003982, AC006088, AL031257, X55928, AC005681, U18390, AC006197, AC005099, U72787, AC002352, AC007845, AC001531, AC002350, AC007421, L78833, AL032821, AC007102, AL022336, AC007038, AC006120, AC005081, AC002367, AL022326, AP000465, AC006511, U18394, AC016026, AC005261, AC009479, AP001042, AC004242, AC004969, AC002301, AC007076, AC018769, AL049636, AC004851, AC018767, AC004815, AL035086, AL135744, and AC003108.</p> <p>H56364, D80166, D59619, D80210, D80240, D80212, D51799, D80219, D51423, D80253, D58283, D81030, D59859, D80193, D80195, D80391, D80188, D80227, D80196, D59889, D59927, D80043, D80269, D80038, D80366, D80024, D59610, C75259, C14014, D57483, D59275, D80022, C14429, D80241, D50979, T03269, D59467, D80045, D59502, AA305409, D50995, D80378, D80164, C14389, D59787, C14331, D80134, C15076, D51060, D80268, D81026, F13647, D80949, D51250, D81111, D58253, D80168, AW178893, D51022, AW179328, C14227, D52291, AW177440, D51079, AA305578, AW178775, AA514186, AW378532, D80251, D80248, AI910186, D80133, AW369651, D59695, AW178762, Z21582, C05695, AA514188, AW352158, AA285331, D80522, AW177501, AW177511, C14298, AW360811, D80064, AW352117, AI905856, AW176467, AW375405, AW177505, AW377671, D80132, C14407, D51097, D59373, AW366296, AW360844, AW360817, AW375406, D80439, AW378534, AW179332, AW378540, AW377672, AW179023, AW178905, D80247, D80302, AW352171, AW377676, AW178906, AW352170, AW177731, AW178907, AW179019, AW179024, AW360834, D51103, AW179020, AW360841, AA809122, AW178909, AW177456, AW179329, AW178980, AW177733, AW352174, AW378528, AW178908, AW178754, AW179018, D80157, T11417, D80014, AI557751, AW179004, AW179012, AW178914, AW378525, AW179220, D58246, AW367967, D51759, AW177722, AW177728, AW179009, AW178774, AW178911, AW378543, AW352163, D59503, C14077, T48593, AW178983, AW352120, D58101, T02974, D59653, AW178781, D59627, C06015, D51213, AW378539, AW177723, D45260, D80258, C14975, AW177508, T03116, H67866, AI535850, AI525923, H67854, AW378533, AW367950, C03092, AI557774, AW177734, AW177497, D51221, AW178986, D80228, AI525917, C14957,</p>
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HLTGP47	8498	719975	1 - 433	15 - 447	AI535686, D59551, D59317, D59474, D50981, AI525920, D45273, C14973, C14344, AA514184, AA598998, D60010, AI525235, D60214, AI525215, AI525227, AC008079, AC007324, AC008101, A62298, A62300, A84916, AJ132110, AR018138, X67155, A67220, D89785, A78862, A25909, D26022, D34614, Y17188, AR025207, D88547, AR008278, AF058696, AB028859, X82626, Y12724, X68127, AB012117, A85396, AR066482, A82595, A85477, AB002449, A86792, AR060385, I19525, A94995, U87250, A44171, X93549, AR008443, I50133, I50126, I50132, I50128, AF135125, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AR038669, Y09669, A43192, A43190, AR066490, I18367, A30438, AR066487, I14842, D88507, AR054175, D50010, Y17187, AL050343, AC007124, AL050324, AR008408, AR064240, AR008277, AR008281, A63261, AC007964, AR062872, A70867, AR016691, AR016690, U46128, A64136, and A68321.
HLTGO89	8499	786674	1 - 594	15 - 608	AW393850, AA194696, and AW274557.
HLTGN92	8500	791185	1 - 358	15 - 372	R24848, and Z43303.
HLTGA40	8501	710728	1 - 401	15 - 415	R83296, H61528, R06428, and AA497003.
HLTEZ30	8502	960911	1 - 338	15 - 352	H12953, AA436993, and AA426378.
HLTEZ19	8503	671610	1 - 705	15 - 719	T85564, T84409, AA361578, and R08443.
HLTEX27	8504	927578	1 - 336	15 - 350	N98660, AI052555, AI033178, R16888, and AA437100.
HLTEV66	8505	772965	1 - 506	15 - 520	N95142.
HLTEP45	8506	723375	1 - 524	15 - 538	AA046570, AI912976, AI810637, AI400892, AI420896, AA317499, N44648, AI085349, T49602, AI825760, AI650498, AA046705, AA782778, H05628, and H17485.
HLTEM25	8507	678685	1 - 508	15 - 522	AA159675, and AC007068.
HLTEG51	8508	494330	1 - 605	15 - 619	R14032, AA825482, H95342, H70614, and AC004921.
HLTEG37	8509	417243	1 - 363	15 - 377	
HLTEC83	8510	574630	1 - 213	15 - 227	W40567, AL040311, AA905330, AA677615, AW205363, and D80009.
HLTEC35	8511	574632	1 - 266	15 - 280	
HLTEA20	8512	669900	1 - 582	15 - 596	
HLTDR43	8513	715529	1 - 664	15 - 678	AA007473, W93011, Z44985, AA430251, and N71668.
HLTDJ17	8514	577379	1 - 657	15 - 671	AI953354, H16401, H00613, F09067, R82764, Z38624, and T17430.
HLTDH96	8515	796560	1 - 275	15 - 289	W56369, H84793, AA913919, AA485021, AC007387, AC006543, and AC006544.
HLTDG59	8516	739699	1 - 340	15 - 354	N72412, and AI689177.
HLTDG30	8517	693329	1 - 345	15 - 359	T81367, AA372287, R50286, W30782, and AL137669.
HLTDB38	8518	456860	1 - 418	15 - 432	H85024.
HLTCZ55	8519	732385	1 - 312	15 - 326	R95058, and R83706.
HLTCX39	8520	705648	1 - 432	15 - 446	AA429774.
HLTCI77	8521	772458	1 - 356	15 - 370	AA157834, and AF095703.
					H84601, and AW379855.



HLTCR77	8522	772457	1 - 373	15 - 387	H84886.
HLTCR11	8523	967559	1 - 335	15 - 349	AA548022, and AC005740.
HLTCM59	8524	442563	1 - 1173	15 - 1187	AA633942.
HLTCI43	8525	715530	1 - 487	15 - 501	R12467, and AB020672.
HLTCI11	8526	967541	1 - 303	15 - 317	AI150147, and AI362692.
HLTCH41	8527	507362	1 - 353	15 - 367	R67858, and AC008033.
HLTBU47	8528	720662	1 - 342	15 - 356	H54393, AA476547, C02267, and AA445910.
HLTBU44	8529	522741	1 - 435	15 - 449	
HLTBS07	8530	954407	1 - 235	15 - 249	AI569948.
HLTBF58	8531	735194	1 - 364	15 - 378	H38593, AA361336, Z99571, and Z83820.
HLTBF56	8532	907024	1 - 513	15 - 527	AA521184, AA766096, AA743785, and AA361334.
HLTBA68	8533	753857	1 - 408	15 - 422	R18278, R17529, AA361271, AA019429, T66081, F12334, and AW025272.
HLTBA41	8534	712721	1 - 653	15 - 667	W78875, AA463793, R10150, AA814668, AA779112, R10157, AI351903, AA361232, and AC004554.
HLTBA35	8535	707243	1 - 366	15 - 380	AA150350, and AA361174.
HLTAM07	8536	954419	1 - 653	15 - 667	AA282169, AA987588, and AA360588.
HLTAK57	8537	735163	1 - 213	15 - 227	N45611, and AA360686.
HLTAA39	8538	710361	1 - 635	15 - 649	W55847, T65532, F11980, AA255754, AA360399, and N45924.
HLTAA27	8539	684649	1 - 377	15 - 391	R73095, R26859, R73096, AA360390, and R27089.
HLMNU01	8540	916641	1 - 484	15 - 498	AA828265, and AW262531.
HLMNQ18	8541	666544	1 - 475	15 - 489	AI076363, AA001640, and AA001228.
HLMMZ09	8542	575837	1 - 458	15 - 472	
HLMMT20	8543	830074	1 - 206	15 - 220	N55558, AA280889, AA095152, T90017, and AC008124.
HLMMR90	8544	575905	1 - 602	15 - 616	T39190, and T40464.
HLMMK61	8545	532605	1 - 492	15 - 506	
HLMMK50	8546	724485	1 - 196	15 - 210	W42656, and AA077151.
HLMMF94	8547	811320	1 - 372	15 - 386	R22164, AI248937, AI084822, AI249135, and AA897402.
HLMMF01	8548	916816	1 - 496	15 - 510	AA837202, and Z82189.
HLMME43	8549	714439	1 - 619	15 - 633	AA716681, AI361749, N77694, H65481, AA005280, H64888, AA005196, N58327, AA747865, R94521, AA677973, AI032897, R93670, H73820, H54422, and AC012627.
HLMTY59	8550	878870	1 - 342	15 - 356	AL120141, AF111168, AC005081, AL109798, AC004883, AL022476, AC006441, AC005071, AC005796, AC009263, AC002369, AL049569, AC006064, AL050341, Z98946, AC002430, U62293, AC006312, AL109628, AC006211, AC005189, AC005736, AC007384, AC006023, M29930, AC005057, AC004638, Z81364, AP000689, M29929, AP000248, AC005317, Z68756, AL023553, AC002400, AC004019, AL031289, AC007151, AL031686, AC007011, AP001053, AC004990, AC005225, AC005049, Z93930, AC005562, AP000210, AC005089, AC005332,

						AL121658, AC004477, AC004491, AC004983, AF053356, AC000052, AC005015, AC000025, AF207550, Z81365, AC003029, AC002551, AC004656, U91318, AC003025, AC004686, AF088219, AL049874, AL034420, AC006275, AC004033, AL009181, AL096678, AC002992, AC004797, AL121653, Z99716, AC005921, AL133485, AL008582, Z93020, AP001054, AL031432, and AF117829.
HLMIG57	8551	835799	1 - 473	15 - 487		R81607, and U34932.
HLMHW80	8552	775382	1 - 432	15 - 446		H71175.
HLMHT61	8553	742044	1 - 445	15 - 459		R70530, and AC006392.
HLMHT49	8554	722191	1 - 448	15 - 462		T71093, T71030, AC004033, and AC007050.
HLMHL66	8555	910804	1 - 353	15 - 367		AA313128.
HLMHL03	8556	856859	1 - 171	15 - 185		T49381.
HLMFU46	8557	718075	1 - 430	15 - 444		AA033893.
HLMFL88	8558	574812	1 - 744	15 - 758		AA884878.
HLMFG79	8559	974552	1 - 220	15 - 234		
HLMFE91	8560	531212	1 - 439	15 - 453		AA229869, AA368329, H48017, A1065031, AL048002, H50031, A1348597, AA056206, H16875, AA704806, A1982994, AA374797, A1251809, H44137, AA303289, T61362, R79396, A1591334, F23268, AA985145, A1114755, AA322161, AW377926, H73306, A1246386, AW377843, AW377863, AW193523, A1871691, AA361244, AA833828, AA640823, AW190277, AA588099, AA526337, AA424280, A1254153, A1252828, N71545, H91047, A1571094, AW089016, F26285, A1281622, AA670108, T54173, M78137, T40210, W27084, AL047666, A1476460, AW377907, AW377921, A1954464, AW377912, AA205911, AA071151, A1811319, A1337065, AA218835, H86579, A1627868, AW390278, N30650, AW081503, AW390250, A1254937, A1816537, AA425924, AA325466, AA310354, A1815583, A1130709, A1536858, A1537995, AW071109, AA613189, AA018923, AA012829, N47820, AW148775, A1814682, A1291439, AA351868, AA836097, A1376454, A1298079, N76059, AA831997, A1018029, A1909640, M77900, AW390555, AA298783, F31634, AA584756, AW023376, A1831172, AW341955, A1475758, A1270149, AA424008, AW247089, AA287502, AA550989, R70884, AA320095, C06028, AW029626, A1888050, A1251380, AW377894, AA181479, N91747, A1251949, A1252207, T90931, A1817108, R48131, A1160875, A1024439, A1251996, A1252979, A1254626, A1284684, AW272640, AA668220, A1499376, A1251353, AA515723, R70883, A1251298, A1255012, AW438551, AA565911, A1254440, AW377961, T48770, AW377862, A1251598, AA564753, AA700664, A1252933, A1469468, AA085554, A1223508, A1254658, AW440451, AA985194, H57324, A1241970, AW086319, AA282530, A1819391, A1627917, A1246059, A1255003, AA372389, A1254673, AA650455, H30595, W38437, AW086334, N92697, H44537, AA071045, AC006211, Z82176, AL035551, AC004671, AC004941, U62317, AL031775, U66060, U66061, AF075037, AC000353, AC005014, AB000462, Z68279, AP000689, AC007425, AL031120, AB003151, AC004216, AC004033, AC006948, AC007731, AC005500, AP000532, AC004611,

					AC004223, AL031643, AC005753, AL139054, AL035249, AL009181, AL009051, AC006014, AC004797, AC006101, AL117355, AP000362, AL031595, AC005599, AL122020, AC005488, AC006465, AC009308, AF121782, AC004687, AC006270, AC006165, U81833, AL096767, Z82206, AC007510, AF196971, AP000300, AL031662, AC005245, AL049829, AC003690, AD000812, AP001063, AP000349, AC002126, AL049611, Z84469, AC007631, AC004832, AC006961, AC008124, AC005412, AC008498, AC000116, Z95152, AP000355, AL022165, AC007253, AC005971, AB023051, AC005736, AP000045, AP000113, AB014088, AC004190, AF024533, AP000516, Z84474, Z98044, AC006430, AB025285, Z49155, Z74581, AC007279, Z82215, AL022336, U96629, AL079340, AF113694, AL031721, AC010077, AC004996, AD000092, AC002563, AC005288, AL035461, AC003983, Z49862, AC002082, AC005620, AL121590, AC004263, Y18000, AC004882, AC005291, AC005529, AP000512, AC000070, AF045450, AL021546, AC004819, AL035588, AL034423, AL024498, AC007227, Z83844, AF134726, AC004531, AL031054, AC005859, AC006441, Z84572, AL050332, AL031258, AC000046, AC000038, AC003963, AC004973, AC003007, L78810, AC007285, AL117329, AP001172, AC004383, U52112, AC007637, AC005632, AC004381, AC005332, AC007784, AL121852, AC004918, AP000306, AL031708, AF195658, Z82182, AP000523, Z81308, AP000047, AL096774, AP000194, AP000115, AB020873, AL008583, AC005754, AC004960, Z96074, AC007263, AC007461, AL022238, AL049780, AC007055, AC005856, AL035690, U07561, AC005257, U73630, AC005775, AP000558, AC006578, AL022333, AL049758, AC006071, AC002407, AL109807, AL034420, AL031673, AC005484, AL049759, AC005519, AC005520, AC006417, AF003529, AC009516, AC005972, U82828, AC004025, AL109865, AF109907, AL049569, AC004253, AP000256, AC004009, AC004854, AP000098, AL031428, AC002364, AL035667, AL021940, U91318, L44140, AC005610, AC005365, AC007671, AC005041, AC002352, AL109657, AP000258, AL121655, AB014083, AC004207, AC006599, AC005065, AL109963, AP000515, AL080276, AC004991, AC005833, AL021707, AC005880, AC005399, AL031584, AL023284, AL035405, AC006449, AL035091, AJ246003, AC002310, AR004690, Z93241, AC006953, AC007192, AL008707, and AL031447.
HLMFE79	8561	531213	1 - 388	15 - 402	
HLMFE17	8562	531218	1 - 137	15 - 151	
HLMFD62	8563	754076	1 - 322	15 - 336	AI797595, AW007013, AI498775, AI498624, H09241, AA935139, AA948609, R44566, and Z39116.
HLMDX01	8564	921546	1 - 401	15 - 415	AA232886, and T81241.
HLMDH08	8565	960055	1 - 814	15 - 828	AI423013, AW058211, AA700642, AW027855, AI709117, AI673385, AW339470, AI161207, AA694181, AI276286, AI216865, H54304, H54097, T99459, T98863, AA669188, AW386076, and AB033044.
HLMDC26	8566	684911	1 - 452	15 - 466	N23041, AW380413, AA078090, AL048960, N28704, AC005088, AF030453, and AJ007798.
HLMCL59	8567	529908	1 - 586	15 - 600	AA742279, N80170, W03637, and AL031289.

HLMCI55	8568	741635	1 - 425	15 - 439	N77018, AI916826, AW236861, AA429686, and AI623392.
HLMBX91	8569	879359	1 - 846	15 - 860	AA515440, AA601425, AW089625, AA659170, AA620554, T47745, AA516058, AI056526, AW102811, AL040382, T06754, AI110760, AA593471, AA523833, AA483204, AW440545, AI243789, AA961035, AA502104, AA633892, AW263415, AA640277, AF190465, U52112, AC005412, AC004019, AC003684, AL133163, AC004832, AC004223, AC007216, AC005696, U95742, AC004815, AC005231, AL031283, AC004966, AC005015, AC003101, AC004383, AC003695, Z97054, AC005081, AF109907, AP000045, AC005808, AP000557, AC007546, AC009516, AC008101, AF001549, AC002470, AF196779, AL021391, AC002425, AC007308, AL031311, AC009247, AC007055, AC002350, AL049761, AC007686, AC002312, AF196969, AC005071, Z98941, AC007666, AL117258, AC007225, AC004841, AC008079, Z83844, AL035413, AC004491, AC007011, AL049780, AC006530, AC002558, AC006511, AC003043, AC002477, AF165926, AC005031, Z84466, AC005529, AC002070, AL080243, Z85986, AC002565, AF053356, AC003070, AL022476, AL049709, U80017, AC002300, AC003037, AC005295, AC007731, AC004382, AC006088, AF038458, AL035587, AC005041, AL035659, AC004983, AL049869, AL035458, AP000555, AC005291, AC005102, AJ003147, AC005488, AC006312, AC007676, AF134726, AC002996, AC007151, AC004922, AC003982, AC007227, AC006241, AL096702, AC005520, AC005500, L78833, AC008044, AC002543, AC004878, AC000353, AC004895, AL133353, AL121652, AP000704, AC002375, AC004985, AL109758, AL035455, AC002492, AP000134, AP000212, AC004596, AC004236, AL021977, AL022316, AC005280, AC002476, AC000025, AL031276, AC004797, AC002394, AC005005, AC006064, AC006285, U91323, AC008115, AC005399, AC005519, AL049829, AL008718, AC004884, AF217403, AC005722, AC002301, AL139054, AF111168, AL049776, AL020997, AC005837, AC005839, AL023803, AL033392, AL109984, AC007537, AC005920, AC005480, AP000553, AC008372, AC005702, AC006449, AL034420, U47924, AC008116, AL049540, AC004659, AC007298, AC004887, AC005902, AP000030, AC005736, Z99128, AC006512, AC007226, AP000088, AL121655, AC007421, AL034549, AC005921, AC006480, AC005899, AC000052, AC002302, AP000011, AL035450, AC004685, AC005695, AC002365, AC016025, AB003151, AL035681, AC005778, AC004967, AC006132, AC006487, AL121658, AC006430, AC007919, AC006014, AC004253, AC005225, AL049697, AC004000, AP000115, AC002045, AC006023, AP000556, AL031681, AC004821, AP000039, AC004645, AC004858, AC006111, AC006001, Z82189, AP000501, AL008726, AP000047, AC004150, AL021155, AP000345, AL132712, Z97056, AC005821, U91326, AC005209, AC016830, AC007371, AC005004, AL031670, AC004882, AL096701, AL031289, AL121825, AL050318, AC007387, AP000065, AF047825, AC007688, AL121603, AC006071, AC005585, AL023807, AC005180, AC004149, AC006121, AC005562, AC005940, and AP000248.
HLMBQ54	8570	730952	1 - 454	15 - 468	H72138, and AA594731.
HLMBQ48	8571	560848	1 - 400	15 - 414	AA505108, and N72195.

HLMBN04	8572	615620	1 - 340	15 - 354	T77272, F13388, and AF052103.
HLMAV56	8573	733708	1 - 540	15 - 554	AA234263, and AA262980.
HLMAI82	8574	523694	1 - 100	15 - 114	
HLMAE86	8575	852563	1 - 543	15 - 557	AA056759, AI870884, AI184256, AA287354, AL048819, AA780049, AA658119, AW083033, AW131126, AA812201, AA523491, AI955653, AA102847, AI420177, AI658829, AI860578, AA058437, AW439401, AA700175, AA527995, AW439499, AI299102, AI471747, AA102846, AI767122, AA884538, AI859388, AI813491, AA004770, AA973515, AI016255, AA452810, H22945, AI686317, AW263434, AA074105, AA452925, H09535, N78501, AI865742, AA847674, AI916285, AA310886, AI263292, R41868, AI868055, AA809214, AW439033, AA994606, AA682833, AA004702, AA287405, and AI597574.
HLLCD85	8576	783454	1 - 515	15 - 529	AI478306, AI161172, AA554537, W68698, AI380170, AI085355, AI796561, AI571389, T70262, AA188734, N92493, AW385352, AI216082, AA188572, AI141460, AI357387, AA489805, AA398636, AF108460, AF108461, AC020663, AF108455, and AF108454.
HLKDC76	8577	953502	1 - 1087	15 - 1101	AA161515, AW250345, AW364752, AW248279, AA173349, AA410730, T09386, N28872, AA281341, N33896, AA312252, AA160094, T08124, Z45256, F07609, AA452741, R69813, AA380203, AA256741, N57212, Z43138, AI017337, F07095, T32695, W26853, T35905, AW204528, R14455, AI948689, AA682474, AI378863, AA378888, W27662, AI935695, AI928405, and AA910271.
HLKDB78	8578	773172	1 - 459	15 - 473	AW298414, N39216, AW004711, AW051893, AI375134, AI917477, AI652977, AI291261, AW002993, AW003527, AI016680, AI676093, AA668759, R49090, AI351891, AI498667, AI203099, AA906803, AI356617, AI950955, Z40923, AI783643, AI418750, AI189132, AF069532, and Y16521.
HLKDB02	8579	918870	1 - 458	15 - 472	T55231.
HLEAN30	8580	843294	1 - 442	15 - 456	
HLCD67	8581	887375	1 - 619	15 - 633	
HKBBV11	8582	965170	1 - 528	15 - 542	AA249141, AA317762, AA323439, R68885, AA657752, AA845804, AA443184, AI138096, AC006998, AC005406, AL022396, AC003029, AC004381, AP000008, AP000704, AL021367, AL031595, AC004106, AC008012, AC004087, AP000503, AF134726, AL034421, AL031274, AC002528, AC006536, AC006077, AL133246, AL034371, AL031733, X54486, AL031650, AC000052, AC004033, AC007731, AC005500, AL034345, AL022098, AC004832, AL079299, M26434, AC004231, AC004383, AC005243, AF099810, AC003101, AC020663, AC005354, AC005722, and AC005261.
HKBBP05	8583	928316	1 - 539	15 - 553	AI436366, and H81947.
HKBAL06	8584	934160	1 - 527	15 - 541	AI039905, AA826224, and AA911597.
HKBAJ12	8585	969644	1 - 648	15 - 662	AA742235, AA742234, AA769592, AA828385, and AA804905.
HKBAB02	8586	918568	1 - 584	15 - 598	AA524543, H28219, AA482728, and AC006486.

HJUBA59	8587	888006	1 - 631	15 - 645	AI971330, AI266060, AI870369, AA025208, N48096, AI673475, AW058505, AI864572, R08870, R38658, F10568, R08976, AI887853, AI400250, AI810202, and AA701175.
HJTRB51	8588	470587	1 - 486	15 - 500	AA648882, and AA357310.
HJPDK80	8589	418622	1 - 902	15 - 916	AA210877, AI797681, AI970134, W86482, AA070750, AA214621, AA977114, W86632, AA252120, AA902411, AA742986, AA242915, AA579700, AI468181, AA376316, AW015483, AA811628, AI928274, AI799954, AA040813, AA213789, and AF001549.
HJPDK57	8590	768274	1 - 686	15 - 700	
HJPD116	8591	518105	1 - 343	15 - 357	H29753, AA011703, AI341972, AA477868, AI813605, AA581094, AW027687, AW193238, AW193131, AA101402, AI565781, AI808069, AI475759, AI298622, AI356540, AI148214, AA156318, R50132, AA516279, AI347078, AI161316, W04405, AI635124, AA853039, R22251, N89768, AI248905, AA873149, AI149506, AW088640, AA701646, R39722, H42776, N95630, AI567992, AI591326, AI741983, R70062, W29112, R31096, AA399446, AW405653, AA011503, AW003643, AA628885, AA876220, AW262885, H54242, AW338832, AA353094, AI743581, AA453197, AI188538, W69801, AA282034, AA513733, AA374524, AI088462, H97805, W67620, AA068409, AW368994, AA034935, AA781354, AI933502, W23274, AW374523, R74587, H96595, AW374544, AA477759, AI052491, AA707033, AW051399, AW075651, R92048, AI583545, AI418411, AI888034, AI911293, AW167110, AI735231, AW167100, AI087842, R70016, AA430524, AA535808, H10643, AI828406, AI625243, AA355826, AI921041, AI375407, AW371892, AA775632, AI034439, AA011693, AI572578, AA861696, AI937166, AW075601, AA740399, AI720285, AW292885, H96596, AI525221, and AL035413.
HJPDE23	8592	574115	1 - 231	15 - 245	
HJPDD82	8593	857401	1 - 990	15 - 1004	AA455589, AI091855, AA988340, AA161359, H42568, R07607, AI015867, R07600, R07602, AA441957, AI936472, and AI291961.
HJPCW09	8594	536677	1 - 234	15 - 248	Z44259, H07973, AB015348, AL137622, AL133072, AL133048, AL133040, AJ132440, AJ243706, and AF087481.
HJPCV54	8595	733607	1 - 575	15 - 589	AA402378, AA464262, AI885402, AI829944, AI921923, AW008540, AI074307, AI005213, AI479060, AI091416, AI684266, AW410641, AI924538, AW337968, AW170092, AW028819, AW242087, AA873160, AI362816, AA857987, AA745265, AI991184, AI2222764, AI972124, AI161220, AI538743, AA609827, AI139793, AI336176, AI075402, AI829318, AA443894, AI609956, AI598268, AW194155, AI446095, AI096558, AA838514, AA431854, AA873436, AA864636, AW387090, AI241070, W79486, AA704924, AA872815, AI086820, AI139048, AI151109, AA937584, AI028016, AI805600, AI434504, AA770528, AI619841, AI872263, AA394128, AI090476, AW117881, AI348212, AI027063, AI355882, AI074246, AA488987, AI469710, AA576443, AI304813, AA832041, AA477555, W81550, AA460236, AA536177, AI351451, AI187174, AI368869, AA916469, AI635832, AA488766, F37944, AA724420, AI187204, AI359194, AW387107, N95198, AI827052, AI961866, AA632947, AI346208, AI285018, AW169451, AA431853, AI266343, AA897757, N54144, W52694, AW105713,

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HJPCS54	8596	871807	1 - 734	15 - 748	N95260, and AI668689.
HJPBP22	8597	577455	1 - 133	15 - 147	AI863962, H87372, AF005418, AF115769, Y12657, and AF199462.
HJPBA04	8598	615585	1 - 472	15 - 486	AA136250, AI024917, AI017124, and AA730431.
HJPAZ91	8599	882668	1 - 523	15 - 537	N32734, R67770, AA057568, AA326169, AA322393, R49744, N23508, Z46028, AI360953, R35017, and AF151800.
HJPAY56	8600	909242	1 - 221	15 - 235	AA205091, and AC003002.
HJPAX11	8601	967599	1 - 543	15 - 557	AI985517, and H75687.
HJPAT79	8602	781697	1 - 311	15 - 325	AA278629, AA215509, and AA031467.
HJPAG38	8603	709103	1 - 425	15 - 439	N23069, N25298, N25305, and AA356922.
HJPAAG60	8604	586675	1 - 523	15 - 537	AA044789, AW371891, AA297755, AA044810, AI150008, AA993400, and AI420327.
HJKSC56	8605	578366	1 - 459	15 - 473	
HJBDM21	8606	793381	1 - 437	15 - 451	H48668, H48397, R98819, H48501, AA306570, AI431664, T89386, and AB011178.
HJBDL70	8607	757378	1 - 697	15 - 711	AA306768, T75462, R13593, F13160, AA479890, W22183, C14389, D80022, AA305578, D80043, D59610, C14331, D58283, D80241, AW177440, D50995, D51423, D59467, D80195, D59859, D51799, D80166, D80227, D59619, D51022, D80210, D80391, D80164, D59275, D80240, D80253, D59787, D59502, D81030, D80212, D80196, D80188, AW177501, D80219, AW177511, D59927, C15076, D80269, D80024, D57483, D80038, D80366, C14429, AA305409, D50979, D59889, D80193, AA514188, D80378, D51060, D80268, AW178893, T03269, AW352117, D80045, D81026, D80248, D80522, AW179328, C75259, C14014, D80251, AW378532, AA514186, D80133, AW360811, AW178775, D58253, AW377671, D51250, AW178762, AW352158, C05695, AW375405, AW360844, D80134, D80132, AW178754, AW177505, AW366296, AW360817, AW375406, D80247, AW378534, AW352171, AW179332, AW377672, AW179023, AW178905, D80302, AW352170, AW179024, D59373, D80168, AW377676, AW352120, F13647, AW360841, AW179020, AW178909, AW177456, D80439, AW178906, AW177731, AW178907, AW179019, AW179018, C14407, AW178971, D51079, AW378540, C14227, T11417, D81111, AI905856, AW178980, AW179004, C14298, AW179329,

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HJBDG36	8608	607769	1 - 593	15 - 607	<p>AI310670, AI754257, AI310787, AI521525, AW020150, AL036334, AA493808, AW275432, AI065031, AI797998, AA557945, AA558488, AW020094, AI909130, AW238341, AI923052, AW021399, AI349130, AA642809, AW265468, AI890283, AA669238, AA659923, AW272815, AA846923, AW265006, AI800426, AI889995, AI336771, AL042667, AL042670, AA904275, AA602971, AI744199, AL121039, AI926102, AI702049, AA584360, AW270468, AA577706, H77492, AA598443, AW075979, AW151247, AI801563, AA610381, AI745116, AA410788, AA676592, AW265201, AW008217, AA083003, AA601376, AW328027, AI755214, AL041375, AW072963, AA629540, AI299891, T74524, AI566408, AW148821, AI345566, AI754105, AA653291, AL044701, AW169183, AL079734, AW272389, AW129061, AW026305, H71678, AA804726, AI049643, AI421950, AI419337, AA507499, AW021917, AI828721, AA774041, AI984168, AA525253, AI123488, AI792092, AI821056, AI821805, AW262946, AA526542, AA135761, AA535216, AA013168, AL138299, AA502991, AA420723, AW410844, AA019973, R99253, AI537368, AA601290, AL118598, AI299442, AA584241, AI904840, AA838120, AA524604, AA525807, AA558402, AL135783, AP000115, AP000047, AC005484, AC005911, AC006449, AL109758, AL139054, AC007283, AC005841, AC005529, AP000555, AC005244, AC004009, Z97184, Y10196, AC004841, AC000094, AL031346, AC005527, AC003108, AC002357, AF134726, AP000503, AF111168, Z98941, AL109627, AC004876, Y14768, AC012039, AC005332, AP000505, AC000025, AC005921, AP000301, AE000658, AL136295, Z84467, AL096791, AL021391, Z98200, AL049697, AC005971, AC007685, Z98946, AC007242,</p>



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HJBC63	8609	745286	1 - 411	15 - 425	AA112809, AA306231, AA307255, AA668156, AI399709, and AB032255.
HJBDA11	8610	967480	1 - 889	15 - 903	AA306061, AI096918, AI264057, AI288905, AA888803, AI379591, AI473353, AI582909, and AA888914.
HJBCZ05	8611	925805	1 - 855	15 - 869	AA312842, AA305846, AA935807, AA470048, AI800098, AA983700, AA983708, AA737820, AA922195, AA416876, AW194609, AW376741, AW363086, AW197591, AA442519, AI185740, AI282285, AI954659, N47199, AA773604, AA397353, AA640513, AA176983, AI149726, AI479754, AI654305, AA837000, AA744021, H73550, AI792377, R97239, AL120004, AA318894, AA516193, AA279385, AA515733, AI805439, AA209208, AA533054, AA669560, T26476, AI343169, AA445908, H94751, AA070456, AI697425, AA862953, AW150387, AA215470, AI718462, AI866580, AA767983, AI683116, AL040374, AA588353, AA078469, T94072, AA325393, T94140, AA669185, AA084230, AI654520, AW029515, AA504951,

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HJBCM55	8612	732411	1 - 463	15 - 477	AA312262, T83797, AA161328, AA932331, AA679030, AI992290, AI827943, AA431880, AI802124, AI827814, AA431881, AA878982, AA569021, AA862891, AI394363, and Z56903.
HJBBG54	8613	728810	1 - 591	15 - 605	AA278413, AA232658, AA234388, and AA356464.
HJBBF02	8614	921242	1 - 1153	15 - 1167	T64492, H80456, AA102097, T64635, W24542, AA356419, and AI650492.
HJBBE51	8615	725948	1 - 479	15 - 493	N48203, AI718419, AI825815, AA779543, AA356389, AI089156, and AA970766.
HJBBE07	8616	954376	1 - 459	15 - 473	AA069386, and AA356239.
HJBBDS9	8617	739633	1 - 506	15 - 520	H10612, AA356365, and R38602.
HJBAP94	8618	796835	1 - 526	15 - 540	AA099056, N76005, AA355858, AA099057, and AA339543.
HJACI60	8619	577525	1 - 553	15 - 567	N23583, AA311407, and R70050.
HJACH13	8620	660943	1 - 362	15 - 376	AI675755, AA927858, AA861302, AA766862, AA311232, AI304365, AI004795, AA759118, AW271713, AI052339, AA853966, R37476, Z40307, AW269006, R41401, and AB002296.
HJABZ11	8621	967665	1 - 436	15 - 450	AA445925, AA310604, AA452033, AW275492, and AW026774.
HJABX39	8622	709556	1 - 686	15 - 700	AI916225, AA310505, W79834, and W79117.

HJABQ75	8623	567249	1 - 1088	15 - 1102	AA309844, AL037632, AL040921, AA601355, AL138265, AI608771, AL135377, AA526787, AI963600, AW131249, AA737309, AA577824, AI685198, AI357778, AI110760, AL120269, AA837677, AI924251, AA507168, U51704, AL138455, AI951863, AW188427, AW088224, AL045053, AW055226, AL037683, AI334443, AA587604, AI859742, AA586458, AA484696, AI053790, AA837740, AA838140, AW162887, AI567674, AW406447, AI963714, AL038705, AI929738, AA456937, AW102811, AA223932, AI654588, AA640277, AL042906, AW085751, AW303196, AA601326, AI963221, AI471543, AW301350, AI284640, AW089927, AA632281, AI204309, AL041690, AA587256, AL046409, AI016704, AA577906, F28204, AI625244, AI133164, AI696962, AW408643, AW274349, AL042905, AA723287, AW021583, AI270117, AI872227, AW072923, AI014358, AA121815, AW130036, AA722198, Z78385, AL120483, AA487872, AA743907, AI246796, AA578832, AI679294, AI110770, T63272, AW008212, AW189303, AL048969, AI445582, AW069769, AA101689, AW407578, AW276435, AA743960, AW089625, AI431303, AI305766, AW247819, AW069819, AI687343, AI375542, AW440545, AA490183, AW193265, AW243793, AL042310, AL499134, AW103509, AW265385, AA078849, AW419262, AI972203, AI679871, AW245747, AA665449, AI610840, AI963720, AA984166, AW406162, AA603445, AA908687, AA812139, AL042853, AA055169, AA643454, AA643457, AI623720, AL046205, AC007191, AC002430, AC009516, AC007384, AL049766, AC005500, AL022163, AL034423, U96629, AP000552, AF053356, AC004491, AL121658, AC004987, AC007731, AL022315, Z98044, AP001053, AC004966, AJ246003, AC005527, AC002059, AL031281, AC004913, AF190465, AC005695, AP000504, AC006511, AC004686, AL021453, AC009247, AC007371, AC006285, AC005736, AP000692, AC004832, AC005324, AL135744, AC005914, AL049569, AC004638, AL031311, AC007308, U52112, AC002310, AL096776, AL022322, AC020663, AC002470, AC000026, AC005696, AC005409, AL133245, AL022302, AC005529, AC005015, AC005089, AC004963, AC004033, AB023049, Z83844, AC004895, AC006449, AC000025, AL031283, AC006013, AC004690, AL022238, AL035659, AC005632, AC005081, AL031577, AC007993, AL121653, AC002544, AC005531, AC005520, AC005776, AP000555, AC005180, AL049776, AF129756, AL022323, Z85987, AC005261, AB003151, AC005295, AC004253, AC006111, U91326, AL132987, AF111168, AC004814, AC005829, AC003007, AC007057, AC016025, AC006581, AC004150, AC004805, AL031680, AL031432, AC004019, AC007541, AC002045, AL031662, AC000353, AC002565, AC005004, AC004650, AC005913, AF111167, AC004878, U85195, AL133243, AC002984, AL096701, AL023553, AC009509, AF045555, AC007536, AP000556, AC002476, AC006501, AC005057, AL022316, U62317, AC005387, U91321, AC004821, AC003101, AL024498, AC000134, U80017, D87675, AC006430, AC002115, AC000035, AC005940, Z98742, AL133163, AE000658, AC006312, AC004477, AC004596, AL008719, AC002350, AC003104, AC007676, AL049830, AF196969, AF196779, AL022721, AC016830, AC005920, AC005332, AC005740, AC004217, AP000115, Z86090, AL023575, AC007227, AC006195, AC006441, AC004583, AL109798, Z82244, Z98752,
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HJABK84	8624	783237	1 - 657	15 - 671	N26671, AI826768, N39824, N22700, AW452772, N31174, F05933, AI690795, AA852538, AA309729, AI274627, AW166599, AW195751, and AA300297.
HJABK16	8625	667399	1 - 786	15 - 800	AA210697, AA309665, AA210819, D80022, D80195, D80227, D81026, D80248, D80439, D80269, D80038, D80164, D59502, C14389, D80045, AA514188, D59467, D59275, D80212, C15076, D80166, AA305409, D59619, D80210, D80240, D58283, D80193, D59859, D80391, C14331, D59787, D51423, D51799, D80253, D80043, D81030, D80302, AA305578, D80219, D80196, D50979, D80024, D80366, D80188, D80522, D59927, C14014, D57483, D59610, D80378, D51060, D80133, D51022, D59889, AW377676, AA514186, D50995, AW360811, AW377671, C14429, AW177440, D80268, D80251, D80241, AW178893, D51759, T03269, AW375405, AW360817, C75259, AW375406, AW378534, AW352171, AW179332, AW377672, AW179023, AW178905, AW378532, D51103, D80157, D80132, AW177505, C05695, AW360841, D59373, AW178775, AW178909, AW352170, AW177731, AW178907, AW178762, AW178754, AW179019, AW179018, AW179024, AW352117, D51250, D80134, AW179020, C06015, D58253, AW177456, AW367967, AW179329, AW369651, AW178980, AW177733, AW378528, AW178908, AW352158, AW178971, D59695, AW176467, AW178983, AW352174, AW179017, AW179004, AW179009, T48593, AW179012, AW178914, AW378543, AW378525, AW352163, D59503, D80168, F13647, T11417, AW178774, D59653, D59627, AW352120, D80258, T03116, AW178911, AW177722, D58246, AI910186, AW177728, C14227, AW360834, D58101, D80064, H67866, AI525923, C14298, D45260, AI905856, D81111, C14407, C14077, AW178781, AI525227, AW378540, AW367950, AA809122, C03092, H67854, D59317, AW177723, AW177734, D51213, AW178986, AI535850, D45273, AI535686, C14344, Z21582, AI525917, AW177508, D80014, D59551, C14973, D59474, AW378533, D51221, AW177497, D60214, C14046, AI525920, D60010, T03048, AI525925, AA514184, AA285331, AI525215, D51097, AI557774, H67858, C14957, AI557751, AW378539, AI525242, AI525235, AW179013, AI525237, C13958, AW178759, AI525912, AW378542, D51066, C16955, C05763, Z33452, T02974,

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HJABB93	8626	791435	1 - 716	15 - 730	RI5729, AA354908, T70813, and N46535.
HJAAZ32	8627	699727	1 - 371	15 - 385	HT2083, AA452004, AA354988, AW293726, and AL049869.
HJAAV85	8628	783412	1 - 215	15 - 229	AA354831, AI708444, and AA745017.
HJAAR02	8629	921105	1 - 279	15 - 293	AA354395, AA903166, and Y12377.
HJAAO07	8630	954263	1 - 447	15 - 461	AA594156, AA354429, and U73641.
HJAAC22	8631	779388	1 - 449	15 - 463	R20249, AA353931, AA369964, R15221, AA206267, AA035045, H84119, AA375219, AI907126, W28121, and AC005037.
HJAAA83	8632	928841	1 - 660	15 - 674	AA524524, AW026098, AW027704, AI498221, AI418388, AA255552, AA679996, AW295864, AA255570, AA353905, AI683939, AA064723, AA065071, AI347410, AL096755, and U51559.
HILBQ12	8633	971556	1 - 346	15 - 360	AA352670, AA766931, AA814879, AA642419, AW298724, AI693480, AA747930, and AI023807.
HILBC52	8634	906873	1 - 320	15 - 334	H47493, R97184, AA352099, and Z94721.
HILBC17	8635	667204	1 - 465	15 - 479	AA258568, AA464583, AA436480, AA352105, AA954703, AA639707, AA234276, AA436533, AA258487, AI675334, and AW292522.
HHEZZ74	8636	934486	1 - 1616	15 - 1630	AA885355, AA825637, AI537418, AW263128, AI739203, N40091, AA053510, AA917424, AI357099, AA151745, AW373447, AA809481, AI907261, AF181985, AF179867, and AF161373.
HHEZT12	8637	969437	1 - 438	15 - 452	AI857340, and AC004702.
HHEZO92	8638	942859	1 - 881	15 - 895	AI680404, AA456171, AI590551, AI953875, AI082560, AI084107, AI243212, AA279972, AI473813, AI339075, AW418909, AI245568, AA443105, AI078761, T78012, AW243617, AW139270, AA298137, AI274709, AW244160, AA318651, AA593768, T78174, AA630836, AI198099, AI934002, AI392724, AI141198, and AI341327.
HHEZN61	8639	973136	1 - 698	15 - 712	
HHEYB64	8640	973232	1 - 661	15 - 675	AW392670, Z99396, AL119444, AL119319, AL119363, U46341, AL119457, AL119324, AW372827, AW384394, U46351, U46349, AL119497, AW363220, AL119484, AL119391, AL119355, AL119483, U46350, U46347, AL119443, AL119341, AL119439, AL119522, AL119396, U46346, AL119335, AL134920, AL042614, AL119418, AL037205, AL134902, AL134538, AL043019, AL042975, AL134527, AL134536, AL119399, AL119496, AL134531,

HHEX005	8641	930794	1 - 1666	15 - 1680	AL134533, U46345, AL042896, AI142139, AL042965, AL042544, AL043029, AL042450, AL042542, AL042984, AL119464, AL043003, AL119304, AL042551, AL021877, AB026436, AR054110, AR060234, A81671, AR066494, and AR069079.
HHEWX08	8642	974405	1 - 516	15 - 530	AW361847, H10130, H20868, AI480290, AI193053, R70273, R52259, AI459029, H09428, AA453532, AI907803, AI494444, W24783, AI143500, AL122091, and R26514. AW148792, AW276827, AI687260, AI613280, AA579366, AI860013, AI364020, AA577906, AI350211, AW193265, AI364026, AW438643, AA483771, AW088058, AA713891, AL036037, AA189117, AI744995, AI431303, AI284640, AI281881, AI270117, AA658362, AI688846, AI061186, AA654761, AA599920, AW193432, AI375710, AI619997, AA613232, AI754658, AA584167, AA490183, AA084725, AW029038, AI962050, AW303196, AW274349, AW274346, AA635442, AL046409, AI355224, AI801591, AI583283, AI345654, AA526758, AI289067, AW301350, AA938105, AL121235, AI929531, AI339850, AA594145, AW408707, AW050498, AI341664, AA808877, AA324164, AA525824, AW419262, AA908468, AA376519, AA664015, AI281903, AI379719, AI287451, AA716348, AA126777, AW406447, AW261871, AA071393, AL134972, AI798489, AA719805, AI382614, AA446657, AA719292, AA526779, AA488746, AI061143, AA601876, AI017024, AI439210, AA350859, F17891, AW089322, AW338086, AI334435, AA167659, AW238542, AI754955, AA346454, AI696962, AA551503, N94233, AA351056, AA577959, AW302450, M86143, AA973803, AA639248, AA586458, AA613227, AA632868, AI358571, AI678316, N29948, AI341548, AW276701, AI040313, AI910609, AA744031, AW072587, AI002834, AA568778, AL044940, AA621858, AW341900, AW073470, AA744077, AA504871, H72402, AI432270, AA776258, AW162049, H85382, AL041706, AA846952, AI370878, AA095074, AA758934, F33795, AA653221, AI986251, AA813902, N29941, AA593247, AL022165, AC002451, AC020663, AP000355, AC005015, AP000328, AC005730, AC003016, AP000512, AP000170, AP000055, AP000123, AC006975, AC004447, AC008372, AC006285, AC002045, AC002549, AC002476, Z97195, AL031584, AC005154, AC005057, AL121655, AL121603, AC004953, AC005074, AC005242, AC006275, AC007030, AC005632, AC002310, AL049643, AC005527, AL080242, AC005694, AC007877, AC004755, AL078463, AF196970, AL078477, AC005740, AC005358, AC007011, AC002307, AC005529, AL049795, AL023280, AC004098, AC005839, AC004947, AF123462, Z97196, AL050308, U72787, U66059, AB020872, AC004381, AC003007, AC004890, AC006333, AC000025, AC004152, AC002077, AL008716, AC016025, U57005, AC004519, AL031575, AC005678, AF003627, AC005746, AL035697, U07562, AL049845, AC004865, AC006040, AL049776, Z98051, Z84480, AC006208, AC005412, AL049742, Z81364, AC012599, AC007363, AC008115, AC006017, AL022311, AC005829, AL031650, AL110292, Z73358, Z82097, AL096791, AF188025, AL008709, AL031054, AC004686, AC004699, AC004477, AC005909, AC006211, AC004960, AC002308, AC004859, AC007878, AC002543, AC002412, AC002430, AL021940, AC004855, AL022323, AP000117, AL109623, AC005150, AF001549, AC006116, Z98304,

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HHEWX06	8643	933879	1 - 256	15 - 270	AI570927, N53790, and AI003414.
HHEWT49	8644	973142	1 - 407	15 - 421	AC005803.
HHEWS01	8645	914746	1 - 604	15 - 618	AI051623.
HHEWQ10	8646	963039	1 - 259	15 - 273	AI021958, N75976, and AC005572.
HHEWM53	8647	973150	1 - 488	15 - 502	
HHEWG06	8648	933874	1 - 308	15 - 322	H71868.
HHEVZ06	8649	933891	1 - 487	15 - 501	H80314.
HHEUJ76	8650	906956	1 - 532	15 - 546	R21123.
HHEUP68	8651	973215	1 - 687	15 - 701	AW392670, AL119324, AL119319, AL037205, AL119335, AL119457, U46351, AW372827, Z99396, AW384394, AW363220, AL119484, AL119391, U46350, U46347, AL119401, AL119439, U46346, AL119497, AL119355, AL119418, AL119363, U46349, AL119443, AL119444, U46341, AL119483, AL119522, AL134525, AL134536, AL119341, AI142131, AL119396, AL134902, AL119399, AL134538, U46345, AB026436, AR066494, AR054110, AR060234, A81671, and AR069079.
HHEUL05	8652	931045	1 - 573	15 - 587	Z45694.
HHEUD79	8653	774157	1 - 599	15 - 613	R31253, and N76374.
HHETR81	8654	836730	1 - 705	15 - 719	AA488956, and AI857635.
HHETP07	8655	952217	1 - 365	15 - 379	AA608595, AA526092, AA548029, AI819569, AI978712, AI872216, AI572693, H73855, AI244758, AI205181, AI270326, AI821493, AW419161, AI732074, AI820988, AL138218, AW023389, AL079804, AL134330, AA984191, AA993198, AI144330, F02412, AA878495.

2474



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HHEIN89	8656	786361	1 - 674	15 - 688	W79658, and AA468892.
HHEIN03	8657	923009	1 - 630	15 - 644	AI598001, AI393602, AA084609, AW340905, AA744018, AI065031, AI344948, AA714011, AI933714, AI962030, F29968, AI499954, AA837035, AA182731, AI278972, AL119691, AI190247, AA493226, AA602906, AA829044, T11828, AL038842, AA847622, AA775205, AA971196, AA644090, AI311796, AA825827, AA492015, AA622801, AA618035, AI150731, AA687730, AI678468, T67090, AI367473, AA502991, AL135108, AA765925, AA526326, AA515048, AA613624, AA452887, AW150077, AA312559, AI281818, AA679625, H29914, AA581247, AI335995, AA536016, AI821382, AW020094, AI031759, AI799569, AA526625, AL038893, AA559241, AA862183, N71685, AI659023, AW021399, AA486559, AA613761, AA832444, C75622, AA515905, AI754567, AA693366, AW341978, AA664043, AI755214, AI249688, AW150028, AL038705, AA640685, AW193265, AL044966, AA651632, AI818067, T71936, AW188742, F18842, AI345157, AA535216, AI077941, AW021627, AA427470, AA525753, AI039257, AI754105, AA559166, AA587516, AI815097, AI866160, AI701898, R98218, AW022934, AA350648, AA847508, AA176978, AI350211, AI653636, AA613594, AC007546, AC005899, AC004623, AC002115, AP000248, AP000210, AP000132, Z83840, Z85996, AC006468, AL008715, AC004232, AL022336, AC006011, AC005500, AC004598, AC005089, AC003669, AL022238, AC004783, AL031848, AC005225, AC002301, U91326, AC005730, AC005015, AC007160, AC011456, AC005102, AP000208, AP000130, M87912, AC005081, AC005562, AL023804, L24093, AC004745, AC004150, U52111, AC005228, AC005728, AL031662, AC004797, AC002395, AC005520, AC004148, AF134726, AC005399, AC005913, AC005328, AL021546, AC004156, Z97832, AL121593, AC016026, AC000062, AL034418, AL049759, Z98200, AL022165, AC006121, AC005412, AL022315, AL049760, Z82214, AL022302, AC002544, AC005544, AC006111, AC007263, AL031311, AC004996, S42653, AC005387, AP000555, AC005332, AC002425, AC004526, AL121603, AC007279, AC005513, AC005409, AC005884, AP000502, AL035086, AL118512, AL049692, AL078600, AC000118, AC004559, AL050348, AC004696, AC002504, AC002543, Z99496, AF053356,

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HHETK38	8658	973120	1 - 565	15 - 579	AC005476.
HHETH36	8659	901275	1 - 540	15 - 554	AJ040349, AA480189, AA027168, AI935351, AI184494, AA927786, AA027167, AA282618, AI968421, AI913352, AI128765, AI302397, AI984941, AA287702, AA933851, F24601, AA938000, T56346, AA326546, T56496, AA365652, AA382209, and AB023172.
HHESV83	8660	780456	1 - 317	15 - 331	
HHESV71	8661	806332	1 - 213	15 - 227	AA902215, H18354, AA630672, AA834707, AA019312, AW022433, AA961035, AI268334, AI268336, R44116, N74072, AA320966, AA504877, AA993818, AI811799, AI630176, AI828801, AA484373, AI267269, AW080436, AW148507, AA137013, AA737106, AI110595, AA541423, AW084466, AA402129, AA101689, AA303007, AW265735, AW270343, AA526630, AI932599, AW327548, AI675615, AA442176, AW410354, AA302327, H12071, AA947534, AI753488, AW275719, AA455483, AW302087, AL046205, AJ049709, AF034194, AF037630, AI370104, AI224415, AA610219, AA837087, AI334443, H73230, AW022897, AW275971, AW102846, AA568494, AL047349, AL036382, AA743445, AW172928, AA443390, AA533176, H86365, AW302080, T99827, AA523841, AA468131, AA483223, H25921, AA454177, AC008116, Z68276, AP000967, AC004903, AC004896, AL021707, AL035588, AC002126, AL109798, AL035562, AC005005, AP000365, AB015355, AC004043, AL049829, AF053356, AP000431, AL022336, AC004901, U85196, U91318, AC002219, AC004491, AC006318, Z85995, AP000049, AC003075, AC004814, AC006509, AC005179, AC006511, AC008009, AP000959, AE000661,

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HHESS93	8662	791729	1 - 743	15 - 757	N50846, N45661, and H40596.
HHEQV46	8663	718640	1 - 557	15 - 571	N57265, AA282692, AL242959, H71719, H75784, and AW183081.
HHEQT07	8664	952452	1 - 2385	15 - 2399	AI760464, AI767592, AI638548, N32912, AI807501, AI741842, AI279458, AW044672, AI274099, AA431728, AI631609, AI654431, AI139981, AI627630, AI096928, AW451355, AI631656, AI081396, AI796487, AI936118, AA525762, AI221786, AI640766, AW062345, AI207996, AA559026, AI798316, AW452771, AI214760, R60899, AI084691, AA516035, AA504631, AI077969, AA771793, AI339473, AI080052, R21999, R64203, AI287970, AW073288, AI352433, AW083740, W31679, AI280486, R69571, AA258401, AA063284, AA302159, AA758823, N69911, AA935191, H09080, AA040796, R64109, AI424748, N62769, AI823758, R33811, AA933822, AI347371, AI673707, AI673708, AA764746, Z38855, AW071057, N42054, AA747629, AA019766, AI783475, R21998, C01887, and AA507164.
HHEQP75	8665	973104	1 - 515	15 - 529	
HHEQL50	8666	723930	1 - 455	15 - 469	AA083528.
HHEQK53	8667	727812	1 - 690	15 - 704	R22320, and R22319.

HHEQH22	8668	723305	1 - 357	15 - 371	H84643, AI688153, AA481647, AI869837, AW361991, AW029303, AA481414, N34803, AA857012, AI360148, AC006050, AF073926, AF047438, and U49841.
HHEQC89	8669	786603	1 - 474	15 - 488	AA210815, and AI939420.
HHEQC26	8670	679505	1 - 514	15 - 528	AA203563, and AC005164.
HHEQB59	8671	738866	1 - 735	15 - 749	AI003508, AI733556, AI792286, AI792327, AI696480, H28915, AI810218, AA679636, AI924520, AW105710, AI018653, AA678645, AA825445, AL078475, AP000025, AP000026, and AI050302.
HHEQB23	8672	675500	1 - 145	15 - 159	R94836, and AA577023.
HHEPW95	8673	588266	1 - 274	15 - 288	
HHEPW40	8674	588265	1 - 363	15 - 377	
HHEPW11	8675	966789	1 - 347	15 - 361	AA487512, AI697235, AA382130, AA528634, AW316599, H62537, AI345704, AI345794, AW161459, AW161879, AI191343, AI003797, AA936548, AA526032, AW084431, T92788, AI360690, AA856958, AI808173, AI114739, AI446500, AA650108, AI978931, AI886224, AA745570, AA093114, AA299422, R76735, AI697242, AI690474, AI583677, AI692245, AI697239, AA507631, AA494253, AA458752, T06876, AA789098, AA069926, N25034, AA554389, AA668945, F28756, AL047645, AA218835, AI922583, AI623741, AA350375, AA360015, AA209436, AI298557, AA907192, AA808843, AA569494, AA808847, AI358514, AA652675, AA886227, AL045107, AA826006, AA148800, AA148531, AI749306, AA773302, AA320722, AI689198, F33184, AA482693, T90014, AI026710, AI829381, H78921, AA666327, AA493618, AA338216, N38803, AI753549, AI934548, AA578245, AI537023, AI246386, AI560228, AW089952, AI753969, H78281, AI580018, T87818, AA778826, AI190247, H24953, AI150848, AW008231, AW377907, AW377921, AI922805, AW377912, AA303770, AI524712, AI079869, AI929738, AI686563, AW163602, AW162887, AW390555, AW162662, F18394, AI274684, AL045451, AW390278, AI139971, AC007055, AC005844, AL049748, AP000432, AC004217, AC004225, AL034420, AC002312, AL034400, AC016831, AC005585, AC001228, AL096801, AC005531, AL096773, AC005215, AC004858, AC007444, AC004004, AL109839, AL009031, AC002326, AC004477, X76775, Z96104, AC002470, Z93023, AC005516, Z95152, AL132987, AC004997, AF109907, AC000353, AC005280, AC004854, AC005534, AL034371, AL135744, AC007911, AC008119, AC007917, AC003043, AC005200, AC005553, AC007786, AC004999, U80017, AC006071, Z98950, AC004495, AC007964, AC007370, AC005318, AC005409, AL031681, Z97053, AC006101, AC004925, AF017104, AC007182, AC000379, AC004257, U41384, AC005027, AL049780, AC007226, AL121852, AL022322, AF190465, AL135745, D86992, AC006505, M20902, AC009501, Z49154, AF090931, Z98754, AL133371, AL021578, AL133396, AP000066, Z73359, AL035072, AL121892, AC004638, AC005261, AC005736, D88270, AC005902, AC004234, AC004821, AL035660, AL049631, AC006432, U73627, AF061779, AC007671, AC004923, AC007151, AC005839, AC002073, AC005332, AC000087, AC006441, AC008072, AC000071, AC004960, AC004216, AL121655, AL049709,

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HHEPT05	8676	912266	1 - 2504	15 - 2518	AW069598, AW131635, AL669446, AL669022, AL968479, AA628971, AA928346, AA828393, AL245982, AW305033, AL399953, AL478692, AW276504, AA653293, AL082346, N57490, AW264574, AA583342, W72055, AL887350, AW268530, N68244, AW130656, AW131233, AL819853, AA253240, AA167004, AA491296, AA171704, AW273451, AA890295, AL431699, AL061332, AL373431, AL262352, AW196819, AL253535, AW243718, AL831015, AA683296, AA846151, AW316619, AL369009, AL942247, AL302629, AL379246, D29081, AA559882, AA722978, AL128087, AW023413, AA287414, AL433493, AA720906, AW130662, AA463506, N77877, AL253623, AA463439, H24406, AL924613, AW192204, AA397433, AA989368, R46595, R24070, AW089044, W05834, T15472, AL265964, T65426, AL749288, AL923627, AW020937, AA855107, AL378942, AL276045, Z45625, T16609, F09478, AA364112, AL984324, AA961110, R77605, AA402444, AA834097, R58443, F05807, R24122, AA650077, AA658584, AL971866, AA327416, R77606, AA171628, H22552, H43755, and AA720957.
HHEPT03	8677	923410	1 - 1057	15 - 1071	AL138265, AL679782, AL687343, AL048925, AA181773, AL046409, AL042753, AA749158, AL963720, AL431303, AL696962, AW193265, AW327868, AW303196, AL279417, AW274349, AA847499, AL623720, AL696955, AW301350, AL270117, AL345654, AL044940, AL801482, AL038705, AA581903, AL281881, AL754253, AL037714, AL613280, AL041690, AL312309, AA515728, AA720702, AL138455, AW085790, AL986165, AA490183, AA846935, AL061313, AL119984, AA101689, AA470969, AA491814, AW438643, AW276827, AA577906, AA569471, AW088202, AA704393, AL192631, AA723017, AL570261, AL610920, AL249997, AL270559, AA857486, AL457397, AA587604, AL635440, AA621858, AL110770, AW408717, AL559705, R98218, AL679045, AA469451, AA649642, AL246119, AW072587, AL610607, AL962050,

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HHEPN71	8678	588241	1 - 721	15 - 735	W56087.
HHEPM69	8679	588235	1 - 372	15 - 386	

HHPEG62	8680	877268	1 - 814	15 - 828	AW007647, AA410428, AA425770, AA702540, AA953885, AA256277, R67851, Z38978, R41246, H41898, Z19699, D62705, AI541468, AL133113, and A75286.
HHPEG59	8681	925436	1 - 529	15 - 543	AA521097, AW268594, AA917092, AA703191, AI580848, AL043152, AW002653, AI146275, AI275894, AI611051, AA029718, AI699998, AI092449, AI242378, Z38987, AI760326, T81076, AA248753, AW393578, AW393562, and T81124.
HHPEF21	8682	956241	1 - 463	15 - 477	AI650932, AW183419, and AL078600.
HHEOG81	8683	588155	1 - 353	15 - 367	NS7024, AA412609, AA446493, AA446313, AA412274, AA417161, AI206458, AI024531, AI027971, and N29332.
HHEOA63	8684	744995	1 - 521	15 - 535	T75517, R99167, and T99393.
HHENY02	8685	919775	1 - 361	15 - 375	AA936859, R08108, and AL031120.
HHENW11	8686	887661	1 - 389	15 - 403	AA216412, T99179, AI285753, AI924872, AA442105, AI174766, AA635739, AI250083, AI311684, AI805363, AI254279, AI133164, AA729282, AA491449, AA489996, T60940, AA420877, AA490183, AA420452, AI133297, AI223604, AL041619, AI310780, AA493695, AW080777, AC005620, AP000432, AL049795, AC005011, Z97054, AC006079, AC003071, Z95331, AC002073, AC005102, AL121658, AC016831, AC007227, AL021546, AC007938, AC005666, AP001053, AP000556, AC006137, AC006430, AC007226, AC006538, AC005231, AC007688, AC016027, AC007564, AC008055, AC005291, AC003030, AC005244, AC002539, AL022165, AL096701, AP000252, AC004562, AC009399, AC005067, AL049569, U85196, AC006312, AC004263, AP000212, AP000134, AC004491, AC012085, AC008079, AP000043, AP000111, AL035420, AC004796, AL008715, AC007057, AC005899, AF039907, AL031680, AC004999, Z93023, AL021707, AC002126, AC005410, AC006241, AC004234, AL035410, AL049631, Z93930, AC005484, AL024474, AP000251, AC005800, AC006101, AC004149, AC004531, AC006131, AB003151, AP000688, AC004882, AP000300, AC005874, AF134471, AC005412, AE000661, AL035587, AC005722, AC004815, AJ003147, Z98051, AC016830, AL022724, AL122021, AC005480, AP000689, AL031577, AC005049, Z83826, D84394, AC007567, AC005200, AP000030, AF124523, AC004985, AC005921, AC005592, AP000045, AP000113, AC007566, AP000692, AC006511, AC004056, AC005940, AF024533, Z97056, AC004876, AC005189, AL031588, AL031685, AL031848, AC002464, AC005821, AC005225, Z97205, AC005004, AC008067, AL049779, AL031432, AC003982, AC005088, AC002404, AC004910, AC007676, AL008583, U62317, AL049872, AC002119, AC009247, AC005837, AC006581, AL031584, AC005015, AL078584, AL031666, U80017, AC006211, AL009181, AC004408, AC007066, AC005971, AL021918, AC004832, AC004067, AL021578, AL034419, AC007686, AF038458, AC006948, AL135783, AL008582, AC006011, AC004953, AC004973, AL022323, AC007792, AC005786, AC005257, AC005988, AL031274, AC002429, AC004801, AL050318, AC006039, AC004859, AP000065, Z93241, AC005630, AC005280, Z82171, AL022316, AC006509, AC007040, Z99716, AC002477, AC002094, AF049895, AC005839, U52111, AC006126, AC004383, AL096791, AC005300, AC006449, AP000112, AP000044,

						AL031133, AC005071, AC004890, U91321, AL117344, AB015752, AP000555, Z85987, AC005844, AC002289, AC005104, AF134726, AC005262, AP000553, AC004974, AC005520, AC004552, AC005180, AL139054, AF196971, AC004895, AL009179, AC002395, AC005332, AC005585, AC005089, AC004894, AC004685, Z95116, AF129756, AL022163, AC005476, AC004148, AC003684, AC006946, AL022394, AC004686, AC000120, AC005695, AC009330, AC004098, AL132777, AC003010, AL031283, AC003035, AC006571, AC002527, AC007637, AP000346, AC004605, AL031665, AC004534, AC005081, AC006111, AC008126, AC005209, AL023807, AP000358, and AC020663.
HHENQ08	8687	959262	1 - 431	15 - 445		H68621, H80833, and AC004622.
HHENK21	8688	858290	1 - 798	15 - 812		AA631620.
HHENJ29	8689	690576	1 - 488	15 - 502		AI357399, AI813392, AI769194, AA490985, AA648531, AA971925, N90859, AI074897, AA886373, and AA609916.
HHEND53	8690	728111	1 - 500	15 - 514		H22946, and Z38757.
HHENC71	8691	757844	1 - 530	15 - 544		W95913, and AC003090.
HHEMZ66	8692	586737	1 - 432	15 - 446		AW340990, AW270170, AA913381, AW392670, AL119341, AL119319, AL119457, AL119324, AL119484, AL119391, U46350, U46347, Z99396, U46351, U46341, AW372827, AW384394, AL119497, AW363220, AL119363, AL119355, U46349, AL119483, AL119443, AL119522, AL119439, AL119444, AL119399, AI142131, AL134920, AL037205, AL119401, AL134531, AL119396, U46346, AL119335, AL134527, AL134536, AL119418, U46345, AL134538, AL119496, AL134533, AL042975, AL042544, AL043019, AL042984, AL042433, AL042542, AL042614, AL042965, AL043029, AL134529, AL042450, AL043003, AL042551, AL119464, AB026436, AR066494, AR054110, AR060234, A81671, AR069079, and AR043113.
HHEMW78	8693	773507	1 - 725	15 - 739		AA251113, AA766300, AA651948, AA703557, R94607, AL119319, R94247, AL042551, AL119418, AW392670, Z99396, AL119457, AL119324, U46351, U46350, AL119497, AL119522, U46347, AL119484, AL119391, AL119443, U46341, AW372827, AW384394, AW363220, AL119355, AL119363, AL037205, U46349, AL119401, AL119439, AL119341, AL119444, AL119483, AL119335, AL134525, AL134536, U46346, AL134528, AL119396, AL134531, AI142131, AL119464, AL042544, AL119496, AL134902, AL119399, AL043019, AL134538, U46345, AL042450, AL042433, AL042542, AL042614, AL042984, AL043033, AL042965, AL042975, AL043029, AL043003, D86604, AB026436, AR066494, AR060234, A81671, AR054110, and AR069079.
HHEMV01	8694	916281	1 - 262	15 - 276		R95819, H61040, H61032, and AC003681.
HHEMQ68	8695	752326	1 - 140	15 - 154		AC006991, AC008175, and AC007967.
HHEMQ48	8696	493733	1 - 534	15 - 548		
HHEMN37	8697	708468	1 - 205	15 - 219		
HHEMK77	8698	772115	1 - 255	15 - 269		



HHMK26	8699	681595	1 - 458	15 - 472	AC004047.
HHMJ91	8700	789443	1 - 572	15 - 586	R38756, AA169642, AA807905, AW021148, AA746636, W76332, AA041299, W72247, Z40683, AW054820, Z41322, AI089582, AI138777, AW151097, AA041351, AA705107, and Z95152.
HHMI69	8701	755006	1 - 445	15 - 459	AW197056, AL042891, AA650218, AI359687, AA658543, AI421102, AI809745, AA226084, AA653852, AL080243, AF196779, AL096701, AL121603, AL031291, AC005520, AC005562, AC005081, AC005037, AC003071, AC005102, AC006441, AL049776, AC002369, AC005844, AP000354, AC005057, U80017, Z93017, AL132712, AC006312, AC005071, AC004883, AC005015, AC006057, AC006211, AC016027, AC004859, AC006251, AC007227, Z83840, Z97630, AL049569, AF165926, AC002544, AC004662, AL024507, AC006285, AC007707, AL031685, AC007537, AF053356, AC005011, AF001550, AC007193, AL022316, AC020663, AC004966, AC005484, AF001552, AC007225, AC012384, AL049839, AC016830, AC007688, AC002395, AC004878, AC006946, AC000052, AL008582, AC004815, AL021453, L44140, AL021391, AC007637, AP000248, AL109952, AC005829, AC005786, AC002301, AP000503, AC010205, AC004796, AC004491, AC004019, AC005049, AC007546, AL034420, AF047825, Z83844, AC004814, AC008372, AC004953, AC003101, AP000355, AL022326, AC007686, AC005225, AL109984, AC005722, AC006014, AP000065, AF134726, AL023575, AC004887, AC004084, Z98941, AL031584, AL022315, AC000026, AC002350, AC015853, AC005622, AC006059, AL022476, AC000025, AC002073, AC005529, AL033527, AC004382, AL050318, AF111168, AC005527, AL022336, AC004832, AP000692, AC005031, AC005488, AC003010, AC002059, Z84487, AC008040, AC002119, AL031255, AC002394, AL133382, AL031591, and AC006121.
HHMI56	8702	469030	1 - 445	15 - 459	AI133448, AI339436, AA401945, AL044340, AL037425, AI014656, AA577824, AI216990, AI569363, AA179163, AI249880, T74524, AW079809, AA524229, AC004491, AL050306, AC005921, AC008033, AC007686, AL031255, AC002094, AC002470, AC005088, AC005796, AC005859, AC005037, AC006241, AL080243, AL049776, AC005844, AC016026, AC005231, AC004859, Z84466, AC002352, AL049540, AC005527, U91323, AC002288, AC007371, AC004707, Z93241, AC007731, AF038458, AC005899, Z82206, AC007057, AC005005, AC004985, AC004019, Z93023, AF030453, AC002300, AC005358, AC002425, AP000557, AC005881, AP000553, AC005519, AC005529, AC004983, AC007263, AC005332, AL031276, AC005940, AC006001, AL096773, AC004821, AC006509, AF207550, AC003071, AC005911, AC005484, AC007308, U47924, AC005520, AP000011, AC005488, AC005841, AL049758, AP000133, AC008372, AC002350, Z98752, AC009516, AL024507, AC006430, AL021707, AL049779, AC005412, AC002549, AC004922, AC002044, AC007226, AC006538, AC005514, AL022238, AC005011, AC000025, AC002400, AC005377, U91326, AC005015, AL031058, AL022336, AP000211, AC005180, AL031283, AC002565, AC005666, AC007685, U91322, AC005602, AL024498, AC012384, AC006251, Z98941, AF165926, AL031228, AC005089, AF030876, AP000555, AL133163, AL035249, AP000512, AC005409, AL022320, AL035086,

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HHEMI09	8703	625459	1 - 448	15 - 462	AA280176, AA722934, AW402500, and AI471831.
HHEMG02	8704	917366	1 - 705	15 - 719	AI361650, AI939413, R13983, AI791644, AI792322, AA312035, AI424010, AW082869, AA911739, N56305, and AI422406.
HHEMG01	8705	916297	1 - 284	15 - 298	
HHEMD56	8706	733353	1 - 400	15 - 414	R94247, and AA251248.
HHEMC41	8707	927255	1 - 457	15 - 471	AI146808, AA722187, AI990261, AI808778, AW451154, AI983943, AW449490, AI088675, AI492618, AA526969, R76719, AW162759, AA719439, AI880009, H41614, D80207, H97676, AI804223, AA115533, H13188, AA552629, AI796667, H13189, W23735, W35334, AI203992, AW304934, AI150509, AI832722, AW157796, AA115532, and AI916646.
HHEMC10	8708	969380	1 - 1813	15 - 1827	AW166113, AL119483, AI340151, AA491767, C75574, T47138, AA714110, C75406, AA444166, AI038304, H29914, AI249688, AW151247, H53546, F29968, AA525753, AA829723, AI251429, H47835, AI366180, C75602, AI031759, AA535216, AI572680, AI597580, AI254779, AI744766, AA494313, C75649, H60639, AA630854, AI620376, AI244356, AW103030, AA666295, AA602906, AI754567, AI619933, AI628859, AI150731, H47461, AW302017, AI570943, AI588837, AA779783, W05446, N49298, H88666, AI613465, AA176605, AA458534, H05066, AL047349, AW275432, AI627917, AA133293, AI755214, AI251576, AI571161, AW070532, AI288350, AA303054, AA662573, AI284105, AI306232, AA622801, T50694, AI049999, AI569100, AI077941, AA262752, AW302753, AI590404, AA714011, AA837686, AI144081, AW302711, AW301906, AI583466, N26201, AA452887, AA640710, AI580707, AW274191, AW192599, AW020612, AA218684, AA084320, AA128511, AA904137, AI610360, AL041894, AI829331, AA720582, R92658, AA581247, AA525331, AA828833, AI884383, AF071071, AF170303, AF170304, AF077658, AF071070, I34294, AC010170, AL049694, Z68285, AC009247, AL109952, AL049697, Z99128, AL023807, AP000553, U17576, S77605, AL035086, AC006509, AP000116, M87923, AC006449, AC005207, AC002302, AC003682, AC005776, AL049759, AC006111, AP000239, AC004797, D00591, AC002369, AL109758, AF196779, AL049776, AL080243, AC004033, AL080317, U82828, AC004771, AC002096, AC005377, AL031594, Z83826, S42659, AC000353, AC005747, AC016026, AC002115, AC005520, AC004584, AP000310, AC005065, AL050307, AC006505, AC007050, AF053356, AC005793, AL009183, AC004983, AL031230, AC000003, AL031284, AL096701, AL035071, AC007276, AC005067, AC000025, AF196969, AL022322, Z82245, Z98742, AC005332, AC004242, AC004534.

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HHEMA35	8709	467295	1 - 725	15 - 739	T69503, H96710, AI720229, AA180833, and AF115509.
HHEMA07	8710	953200	1 - 446	15 - 460	AA028899, AI767784, AI093656, H24053, and R17668.
HHELA35	8711	878217	1 - 449	15 - 463	AL042540, AL042026, AL040542, AL042640, AL041808, AL046135, AL044583, AL041936, AL046244, AL043604, AL043201, AL043218, AL046383, AL039689, AL042346, AL044015, AL043425, AL043424, AL045991, AL079876, AL042700, AL044377, AL043468, AL043795, AL043128, AL042245, AL044029, AL044771, AL042712, AL043867, AL049007, AR017908, A78783, A78785, A78787, I03356, I02541, A60975, A61052, A60955, A21624, A25853, A02712, A02710, E12615, AR035193, A84772, A98767, A13388, A21625, A68112, A68104, E14304, A47368, A07700, A02228, A02230, A13392, A13393, I62368, AR031488, I13521, I19516, I19517, A98467, A84776, A18756, A71435, A00781, A84773, A84775, I52048, A93963, A93964, A27396, A95052, I63120, A68114, A38214, AR043602, AR067733, A76773, AR062871, AR017907, AR043603, A84774, AR043601, A22413, A95117, A95051, A18053, AR027100, AR029418, I44531, I28266, AR067734, AR067731, AR028669, AR028668, AR028667, AR028670, A00784, A00783, A18050, AR037157, AR054109, A71440, A44171, A23334, A75888, I70384, I95540, AR018924, A60212, A84746, A60209, A60210, A32110, A63067, A64973, AR067732, A51047, A63064, AR029417, AR018923, A60111, A60211, A48774, A23633, I21869, A29109, A60109,

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HHEKZ12	8712	878267	1 - 428	15 - 442	

						E02096, A28163, E02100, A89634, I66490, E01997, A58998, E02291, E02292, E02293, E01999, E02396, E02327, E02428, E01563, E02431, E01693, E01696, A43189, I66491, AR005163, I66492, I66493, AR005154, AR005157, AR005160, I66481, A43188, AR005153, E01024, A07699, A49695, A49696, AR050583, AR050584, E01148, A20700, I09267, I09270, E12527, E01503, I09268, I09269, AR005165, A08457, E12523, A21895, E02432, A49701, E01216, I77211, I09252, A95096, I09251, E08322, I70974, A32111, A08458, I66495, AR068550, A23373, AR068551, I13349, and AR060673.
HHEK170	8713	955092	1 - 360	15 - 374		H81062, R66623, AA157130, AA709449, AI418982, AI224930, AA555217, AI670713, AI025077, AW024689, AW026453, N34521, AA583083, H11108, AI335880, AA782850, AW051284, AA995800, AI299462, AI749642, AI601228, AA909761, AA862779, AI720508, AI808092, AA191356, AA055048, AW294880, AI745210, AA907529, AI818823, AC003108, and U91321. AA017452, and AA058749.
HHEJR35	8714	878223	1 - 318	15 - 332		AI276548, AA447822, AI417105, AA447672, AA256175, AA256234, and AC005368.
HHEHK04	8715	925717	1 - 929	15 - 943		AI807087, AW271548, AI419841, AI538436, AA424573, AA770475, AA742969, AA873728, AA987961, AA972636, W72622, AA947936, AW016152, AA488904, AA826395, AI701287, AW138334, AI632691, AW138149, AW206969, AI350132, AW167659, AI475742, AI298733, AI985561, AI696060, AI334306, AW015583, AI767968, AI523823, AW149586, AI681193, AW139596, AI827183, AW052123, AI801957, AW004849, AA410446, AW015071, AI693271, and AA806974.
HHEHG38	8716	943785	1 - 570	15 - 584		AA706313, and AC004106.
						AI476429, R01739, H81216, and AC002112.
						N79427, AA479328, and AA585287.
						AA429377, and AA451768.
						AA134627.
						AA455618, R68619, AI963632, and R80278.
						AA548611.
						AA001827, and AI874381.
						W07668, AI041812, and Z59034.
						AA081780, and AA084623.
						AI732599, AA132796, AW205259, AA885330, AA769901, AI609831, AW087786, AI423901, AA313420, and AI791778.
						AI904811, AI869990, AA766310, AA493695, AA769402, AI567076, AW275510, AA490183, AA548058, AA757775, T60681, AA568869, AA515334, AI632259, AW002350, AW071163, AA484373, AW408047, AA526630, AI169263, AW023865, AI119691, AW438853, AW407578, AA468022, AI924872, AA491650, AI305766, AI345157, AI580250, AI982555, AA491862, AI783494, AI311927, AI445674, AI368256, AW083402, AW302903, AI687343, AA838190,
HHEGC05	8717	930878	1 - 457	15 - 471		
HHEFN76	8718	767770	1 - 687	15 - 701		
HHEFM41	8719	711954	1 - 764	15 - 778		
HHEFY63	8720	744592	1 - 600	15 - 614		
HHEDN70	8721	757106	1 - 376	15 - 390		
HHEDN51	8722	734118	1 - 380	15 - 394		
HHEDN49	8723	588136	1 - 384	15 - 398		
HHEDL54	8724	588129	1 - 551	15 - 565		
HHEDB30	8725	692086	1 - 550	15 - 564		
HHECT42	8726	588098	1 - 606	15 - 620		
HHECM62	8727	934414	1 - 534	15 - 548		
HHECA10	8728	973228	1 - 349	15 - 363		

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HHEBQ68	8729	752956	1 - 437	15 - 451	

HHEBQ59	8730	739216	1 - 453	15 - 467	Z82182, Z85987, and AL031674.
HHEBO04	8731	615127	1 - 452	15 - 466	
HHEBM89	8732	786088	1 - 453	15 - 467	AW365588, AW365645, AW178374, AW365586, AW365672, AW178440, AW365663, AW375350, AW365798, AW351683, AW365799, AW365784, AW365743, AW365772, AW351664, AI809449, AI738507, AA972625, AI721277, AW178298, AW179229, AW365840, AW365686, AW365631, AI221680, AW375355, AI039710, AW365803, AW365680, AI559604, AA583144, AI200839, AI580997, AW179232, AW365593, AA306854, AW365585, AA280016, Z21375, AA280087, AW178307, AW365767, AW365850, AC005317, and AC005316.
HHEBM53	8733	728087	1 - 459	15 - 473	AL037436, AL044199, AL037443, AL043677, AL043467, AL040576, AL038532, AL041635, AL043537, AL044074, AL045753, AL038838, AL041133, AL045920, AL041602, AL043492, AL044165, AL043775, AL038822, AL041752, AL040839, AL045857, AL046442, AL040745, AL045684, AL040617, AL040332, AL040255, AL040285, AL040342, AL040091, AL040128, AL040168, AL040253, AL044037, AL044186, AL040510, AL040625, AL045817, AL041142, AL041238, AL047183, AL040322, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL039915, AL040444, AL046327, AL041131, AL045725, AL049069, AL045990, AL041227, AL040458, AL040553, AL041159, AL044187, AL046150, AL043612, AL041168, AL041955, AL037435, AL040090, AL040263, AL037343, AL040294, AL041197, AL040329, AL039744, AL044274, AL040082, AL044272, AL040148, AL041730, AL041523, AL043627, AL041186, AL046392, AL041374, AL040052, AL043845, AL042135, AL044064, AL038983, AL039316, AL043923, AL043814, AL049018, AL040472, AL043848, AL040370, AL041459, AL043570, AL041577, AL044201, AL044258, AL046850, AL046147, AL040768, AL037727, AL039360, AL046994, AL042712, AL042096, AL040414, AL040571, AL040529, AL046097, AL046914, AL045671, AI142134, AL037335, AL046360, AL080031, AL040238, AL045994, AL039338, AL037323, AL037341, AL041346, AL079878, AL041140, AL041278, AL040155, AL039432, AL047131, AL037295, AL041096, AL041358, AL047012, AL040463, AL045989, AL044227, AL045784, AL040464, AL037279, AL041098, AL041163, AL041277, AL037371, AL043538, AL041324, AL043440, AL039087, AL040621, AL037259, AL043128, AL040075, AL036788, AL048647, AL037352, AL046099, AL041210, AL040149, AL041086, AL041296, AL044162, AL043496, AL041233, AL036230, AL079953, AL079852, AL040193, AL037361, AL036500, AL038761, AL049007, AL041246, AL042700, T23957, T23888, AI525556, AI540967, AI525431, AI541365, AL045340, AI541535, AL042245, AI541374, AI541514, AI541017, AI546891, AL043950, Z30131, AL044015, AL043444, AI546855, T23985, T24112, T02921, T24119, AL039156, AI547039, AL044530, AL036630, AL039504, AW451416, AW013814, AL039555, AL039509, AL039564, AL039538, AL038043, AL039108, AL039678, AL039566, AL039074, AL038837, AL039521, AL039625, AL039648, AL039659, AL039629, AL045794, AL039476, AL043586, AL037726, AL038531, AL039109, AL040992, AL039924, AL039128, AL044407, AL036973, AL042909, AL045341, AL045337, AL044412, AL037051,

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HHEBJ08	8734	858429	1 - 526	15 - 540	AA810477, AI809719, AA767097, AB022537, AI031228, AP000089, AP000142, and D87675.
HHEBB80	8735	775424	1 - 365	15 - 379	AI741540, AA285147, AI828011, AA938365, AA744754, AA748786, and U66589.
HHEBB22	8736	858418	1 - 311	15 - 325	AA580560, AI982808, AA668548, AL047192, H41986, AA372736, AI581037, AA290795, W23553, AW075704, AA730782, AI049701, AA676621, AI904944, AI564301, R88803, AL137946, AA487475, AA297011, AA326452, AI053784, AA296604, AI762302, AI904692, AA804297, AA161492, AI002762, AJ132637, AC006111, AC007421, AC006511, AP000557, AL096701, AC005529, AC002477, AC004033, AC003982, Z83844, AC006261, AC002117, AC005736, AC004813, AL022476, AC005071, AC005932, AC005531, AC007283, AC005971, AP000689, AF003626, AP000512, AC006088, AC005280, AC005288, AC002425, AF111168, AC007637, AC005231, AC007216, AL109827, AL031602, Z99716, AL022327, AC007055, AL022315, AC004491, AC006312, AC005015, AC006130, Z82215, AB023051, AP001053,



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HHEBA86	8737	785413	1 - 529	15 - 543	T51229, AI438982, AA045636, AL263382, and W44735.
HHEAL37	8738	491205	1 - 452	15 - 466	AA846036, AA557945, AI061313, AA601336, AW157128, AI921744, AI038029, AW265468, AA618531, AA554289, AW239465, AA658443, AA828840, AI003068, AI251024, AL121039, AI702049, AA280886, AW021674, AI318548, AI064968, AW162314, AI344906, AI753365, AW023390, AA101744, AA653139, AA644090, AW162332, AA157876, AW237905, AW021847, AI570067, AI114755, AL135490, AA584489, AW148821, AA167656, AW410844, AA533660, AW439703, AW409626, AA828834, AA482682, AA507623, AI345256, AW131109, AI434103, AA631915, AW419389, AI027602, AI174703, AI520984, N99245, AA661583, AA761454, AI270280, AI815425, AA019793, AI254267, AW022796, AA601376, H47461, AW277240, AA847341, AL202777, AI361401, AA428991, AA496042, AI363336, AI149177, AI343808, AI744890, AI684999, AA205931, AI285651, AW029626, AA664963, AW162762, AI914748, AA847499, AA313025, AL135377, T15407, AI860423, AC006468, AC005755, AP000547, AF113694, AC006071, AL049694, AC004257, AC005585, AC006323, AC004997, Z82208, AF165926, AC004263, AF111168, AC007227, Z83844, AC016026, AC004685, AL020997, AC006088, AL031295, AC004000, AL049776, AL031662, AC000039, AC003037, AC005740, AP000692, AF107885, AL133163, AC005971, AC005822, AC007240, AC006449, AC004777, AC004812, AC008055, AL109952, AL034548, AL022165, AC004797, AC005529, AC005003, AL022323, AC005221, AC007934, AC005531, AC007066, AL035659, AC005694, AP000704, AC006581, AC005914, AC005071, AP000556, AC007536, AL133355, AC002310, AC003043, AC005632, AL121825, AC000353, AC003665, AC007308, AC016027, Z97056, AC004552, AC006512, AC005011, AC005288, AL031291, AF207550, AL021391, AL049856, Z98051, AC007845, AC007938, U91326, AC002464, AC002094, AC004801, Z75744, Z86090, AL022316, AL023553, AC006139, AC004972, AC005793, AL035072, AC004832, U91328, AC005826, AC004814, AC002039, AC006315, L78833, AL031427, AL109984, AL034417, AC004883, AC004913, Z97630, AL121652, Z82206, AC000026, AC002425, AC006379, AD000092, AC002316, AC006006, AL031680, AC004848, AC004099, AC005091, AL079340, AC005736,

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HHEAJ78	8739	773538	1 - 342	15 - 356	T50165, T50113, AF083037, AJ131693, AC004013, AJ010770, AB019691, AF091711, and AB018346.
HHEAF06	8740	935355	1 - 873	15 - 887	AA225048, AA486071, AA255002, AA259264, and AA259263.
HHEAD08	8741	959305	1 - 913	15 - 927	AI653055, AW137083, AI206286, AI206167, AI825389, AI635444, AW020480, AW080157, AI572778, AI689157, AA830536, AI872787, AI561356, T49776, AI273189, AI613028, AI627360, AI951062, AJ010953, I89947, and Z82022.
HHEAC20	8742	668948	1 - 445	15 - 459	AB023164.
HHEAA02	8743	932265	1 - 618	15 - 632	AA206987, AA174038, AW408551, T85017, AW407690, AW383801, AW372047, and D38553.
HFSBE12	8744	970629	1 - 306	15 - 320	AA343127.
HFSBB12	8745	971571	1 - 411	15 - 425	AI247356, and AA342973.
HFSBB06	8746	960835	1 - 312	15 - 326	AA687273, AA342970, AA490838, and AA651799.
HFSAZ51	8747	725973	1 - 703	15 - 717	W85737, AA203160, W86374, H73352, H73608, AA342722, and AF085998.
HFSAX30	8748	693419	1 - 370	15 - 384	AA342872, and N50158.
HFSAXW27	8749	684668	1 - 359	15 - 373	AA342834, AI968315, AI677905, AA868484, AI867702, AI914523, and T69593.
HFSAU89	8750	785904	1 - 479	15 - 493	AL048376, AA302964, N52560, AA630004, AA526343, AA721530, R86160, AA713765, AI431513, AA078184, AA714073, F05830, AA363003, AI915081, AI884861, H99700, AI803741, F08866, AA741301, AW019964, F35684, AI520967, AI223968, AA663373, AA484892, AA079076, AI300818, AI310992, AA721523, AA678616, AA527954, AI859736, AI859906, AA078137, AI185394, R67701, AA579281, AA742949, N72607, AA664248, AA632556, AA657910, AA636102, AI276360, AA946848, AW084445, AI049701, AI678476, H84412,

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HFSAU84	8751	781861	1 - 462	15 - 476		AA002008, and AA342765.
HFSAT96	8752	504394	1 - 314	15 - 328		AA342649, AI417549, AI015042, AA937811, R10133, and AA809838.
HFSAT48	8753	720843	1 - 734	15 - 748		AW444617, AA127741, AI167643, AI766982, AI127805, AA026398, AI858903, AA026454, AI219704, AW150317, AA342691, and AB032980.
HFSAS86	8754	785851	1 - 371	15 - 385		AA232575, AI640189, AI654402, Z39790, AI569812, AI628986, T32417, R77502, and AA232707.
HFSAR68	8755	675246	1 - 496	15 - 510		AW242724, AL038812, AA847357, AA342457, and AA828137.
HFSAP25	8756	677463	1 - 471	15 - 485		T91860, AA342526, and AL050343.
HFSAK31	8757	504424	1 - 530	15 - 544		AA342210, and AA342211.
HFSAK14	8758	504431	1 - 338	15 - 352		AA342217, T89445, and Z82204.
HFSAL68	8759	753858	1 - 463	15 - 477		AA342239, AA453470, R88771, H67880, AA453977, and AC006017.
HFSAH34	8760	526472	1 - 683	15 - 697		H98141, AA932231, H13331, AA342176, and AA774480.
HFSAG03	8761	960973	1 - 482	15 - 496		AI608909, AA652060, AA342084, AA297662, AC009247, AC007021, Z73359, AC006305, AC003101, AC005531, AL049776, AL050318, AC007151, AF001548, AC005919, AC003049, AL117355, AL096773, AL022316, AC007637, AL022318, AL022329, AL022311, AL031602, AL023799, AC005670, AC002326, AC004531, AC000379, and AC005800.
HFSAF53	8762	728528	1 - 439	15 - 453		AA187595, AW269861, AI684495, AW269881, AW087253, AA342077, AI468367, and AA972820.
HEOQI52	8763	850966	1 - 399	15 - 413		AW088326, AI566702, T62825, AA483086, AA814532, and AA180167.
HEOPY91	8764	933173	1 - 536	15 - 550		AA283977.
HEOOA49	8765	942561	1 - 731	15 - 745		AW373840, R15032, and T97932.
HEONX61	8766	741864	1 - 324	15 - 338		T91881, AB011135, AC005670, and AC005829.
HEONO64	8767	746660	1 - 587	15 - 601		R98434, R98433, H59682, N54298, H59632, H62487, AW067991, and AB032993.
HEONO59	8768	741361	1 - 848	15 - 862		W37916, AW369323, AL138197, AA292636, AA789205, AA278688, AI077497, AI670821, AW117287, AA608906, AA382777, AA724269, AA278680, AA827227, AI160796, AA600253,

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HEONN02	8769	840210				H81666, R20624, H02596, and AL109758.
HEONL19	8770	575884	1 - 364	15 - 378		
HEONL09	8771	961147	1 - 476	15 - 490		
			1 - 142	15 - 156		AL042382, AW162194, AL079794, AL119399, AI698401, AI251221, AL079963, AI961589, AI382670, AI829990, AW438793, AI624293, AI811785, AI826225, AW080279, AL036980, AW075645, AI345347, AI824576, AI610667, AL037582, AL037602, AI783821, AA527133, AW022584, AI468872, AI919593, AI890507, AI690748, AI933992, AI446515, AI537677, AI538850, AI923989, AI963224, AI814087, AW170725, AI491852, AI559752, AI634224, AI280747, AI580214, AI868204, AW089233, AW128983, AI445115, AW075484, AI758309, AL046466, AA693314, AW130804, AI922075, AW050850, AL043168, AW081606, AI570872, AI648436, AL121496, AI434134, AI568138, AI628296, AI439745, AI917963, AI921254, AW148423, AI590118, AI564765, AI570966, AL119457, AI866457, AI349645, AW081902, AI623941, AW051088, AI470648, AW409775, AI541048, AI758437, AI802372, AI859991, AI926333, AL037639, AI890907, AI352326, AI307494, AW105601, AA983883, AI580674, AL036673, AW169604, AI670009, AW075482, AW022102, AI554821, AI340511, AI696570, AI916419, AA464646, AL038445, AI564259, AW088882, AI564234, AI540759, AW161156, AW020397, AI866465, AI698391, AI453487, AI446046, AI612885, AW102794, AW071689, AI590043, AI568060, AI620639, AA814990, AI538342, AW161735, AW079336, AI637833, AI802240, AW020710, AW150762, AW163554, AL043152, AI866770, AI277008, AI363957, AI609236, AI289310, AI263331, AI225023, F34800, AI859464, AW008166, AI813868, AI345688, AL048644, AI445069, AI690389, AI566670, AI423105, AI251485, AI621341, AI473536, AI624056, AI539863, AI683099, AI811353, AI744256, AI540674, AI269242, AI354283, AW022682, AW102902, AI830259, AI884318, AW104056, AI874166, AL042544, AI872423, AI744485, AI625209, AI819106, AI648508, AW081449, AW079572, AI812015, AI587156, AW189716, AI873704, AL046618, AI828412, R36271, AI700159, AW007555, AI468959, AI285448, AI352184, AA502794, AW029197, AI624548, AW080079, AI540754, AI890628, AW004886, AI539847, AI911648, AI582932, AI638798, AW051059, AL047172, AI624120, AI499621, AI687166, AI589267, AI318280, AI829327, AW054931, AI918449, AI423326, AI240602, AI620075, AW023338, AW167083, AI355849, AI683590, AI634305, AI687287, AW024564, AI254042, AL046595, AI569579, AI589428, AW085786, AL040694, AI525669, H89138, AI573167, AW149878, AI933926, AI969655, AW020693, AW188554, AI348897, AI610402, AI679550, AA641818, AI273094, AI521594, AL037463, AI284034, AW081143, AI540458, AL038956, AI343091, AI340627, AI784252, AI866690, AI312210, AI345416, AW167918, AI500061, AI491710, AI345612, AW243886, AI335426, AI305745, AI832457, AI241923, AF111851, AB016226, I48978, AL137529, Y11587, I89947, AL137648, AF205861, U49434, AR038854, S75997, AL049283, AF111849, AL049464, AL117394, AL137480,

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HEONL06	8772	935516	1 - 402	15 - 416	AC006211.
HEONK37	8773	707505	1 - 467	15 - 481	H01559, and R27733.
HEONK10	8774	964757	1 - 328	15 - 342	AI159943, and AL109755.
HEONJ18	8775	575888	1 - 325	15 - 339	
HEONI92	8776	792772	1 - 589	15 - 603	T49908.
HBOMX03	8777	922962	1 - 592	15 - 606	AA812058, AA659324, AI582769, AA441788, AL041014, AA708352, AA572960, AL040800, AA810370, N32030, AA553439, AA649642, AL538540, AI445815, AI252506, AI139895, AW082744, F17700, AW265073, AI049831, AW028908, AA678436, AA904253, AI623899, AI270476, AI582890, AA601222, AI888405, AW272641, AA847741, AA810318, N64587, AW276984, AL119691, AA503600, AI623563, AA448838, AI028540, AI090334, AA599063,

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HEOMX01	8778	913683	1 - 545	15 - 559	AL049843, AC009248, AC004744, Z70274, Z97055, AC002300, AC005588, Z93023, and AL022334.
HEOMV61	8779	506231	1 - 513	15 - 527	AW263864, AI609972, AI708009, AA136526, AA501614, AI473838, AA584201, AL041706, AL022334.

					<p>AA862227, AW238542, AI343143, AA828696, AA587995, AW439480, D29019, AI925579, AI732690, AI929746, AI590442, AL133861, AI251576, AI929738, AA342945, AA579366, AI872503, AI307201, AW021886, AI278972, AW238583, AI366555, AI446821, AI734070, AI821467, H58672, AC008372, AC006064, AC002115, AL021937, AC004000, AC005153, AL132987, AL117258, AP000359, AF064861, AC009248, AL049829, AL031280, U91326, AC004678, AC005280, Z82194, AL035587, AC004699, AC004821, AP000512, AL008582, AC005726, AF109907, AL035249, AL049759, AP000555, AC007371, AC004765, AC008115, AC007182, AC008134, AL022326, AC005764, AL023553, L78810, AJ239318, AC005620, AL132777, L44140, AC006480, AC004638, AL031650, AL035410, AF196971, AL022476, AL031257, AC005803, AL033525, AC005695, AC007336, AC008984, U73634, AC004777, AL109628, AC005358, AL035450, AL020993, AC002544, AC003112, AC006312, AF165926, AC002073, U62293, AL031577, AC002558, AC003101, Z85986, AC005291, AL023574, AP000248, AC002565, AP000355, AC005531, Z83822, U95742, AL031728, AC004983, AC007312, AC007308, AC006285, AC006530, AC006077, AJ239322, AF001549, AC004859, AC004984, AF195658, AC005041, Z84572, AC005288, AC004835, AC004694, Z83844, AL022722, AC005562, AC006270, AC004148, AC004125, AC005197, AC006965, AL109627, AL035072, AE000658, AF001552, AC005353, AC005667, AP000466, U85195, AC002119, AC004810, AC007036, U95740, AL050318, AL096701, AC007560, AL096678, AC007738, AC005740, AL096791, AC005048, AL009031, AC009247, AL034549, AF117829, AC012384, AC007285, AC002375, AC005088, AC005839, AC007227, AC005725, AP000495, AC005911, AC004024, AC004751, AC006539, AC004878, AL031255, AC003108, AC004841, AC005182, AC008154, AC002563, AL031985, AL035681, AL022324, AB023049, AL049830, AL049776, AC004819, AL022313, AB016897, AC005599, Z98044, AC004596, AL133249, AC005261, AC005074, AL022320, AC005057, AP001040, AC004887, AP000494, AC005536, AJ003147, AC003119, AP000038, AP000106, AC007216, AC005004, AL133163, AC002331, AF053356, AL121923, AP000018, AC004477, AF038458, AL133245, AC006449, Z68756, X55448, AC007541, AL022160, Z83840, AC005529, AL121825, AL022318, AC005225, AL117337, AC004797, AF205588, Z97053, D87675, AL022721, AC005480, AC005944, AF196969, AB020863, AC002300, AP000557, AP000514, AC005332, AC004056, AL080243, AC003013, AL023879, AL049780, AL049757, AC004106, AC005971, AP000476, AF003626, AL050312, AP000556, AC005100, Z83838, AP000210, AP000132, AC005206, AC005940, AL049635, AC004687, AC005670, AC007324, AC005324, AC005696, AL132712, AF067844, AC005082, AC004895, AD000092, Z95331, AL021453, AC003086, AL021368, AL031281, AL049872, AJ229041, AL031670, AC007879, and Z82185.</p>
HBOMQ68	8780	753075	1 - 270	15 - 284	T94453, and T94541.
HBOMQ04	8781	931032	1 - 848	15 - 862	N98652, AI718741, AI744439, D59305, AI192651, AI799507, AI185182, AA150851, AI367734, AI689723, N92449, AA070453, N62281, AA045938, AW129608, AA478529, AW250169,



						W31286, AA045823, AA780299, AA449362, AW237037, AW008432, AA449623, AA886147, AI924764, N66129, N77569, AA737269, AI796181, AA328292, AA523165, AI934498, AA083786, AI291525, AI475558, AA384850, AA919079, AI928049, AA532529, AI933049, AW021922, AA548761, AW383474, AW383521, AI536641, AI568378, AI280669, AI815855, H43514, AI694909, AA669083, AI912666, AI864383, and I76237.
HEOML91	8782	667931	1 - 300	15 - 314		Z99716, AC004491, AC003029, AC003037, AC006071, AL049874, AF064866, AC006501, AF111167, and Z96074.
HEOML76	8783	575927	1 - 211	15 - 225		AA931871, and AC006211.
HEOMH63	8784	745146	1 - 416	15 - 430		AA018945.
HEICC56	8785	733383	1 - 154	15 - 168		H72530, N72717, W52505, R84302, AC005328, AC007136, AC004587, AP000694, AC005086, AC005562, AC005231, AC004104, AL024498, and AC004841.
HEIBB84	8786	781994	1 - 394	15 - 408		AA777270, AW207152, AA018758, AA019256, and AA620301.
HEIBB31	8787	697987	1 - 337	15 - 351		AA424812, and AW085011.
HEIBA15	8788	888667	1 - 414	15 - 428		
HEIAX24	8789	677177	1 - 358	15 - 372		AI365988, AW406755, AA587256, F29989, AI358229, AW193265, AI613280, F36273, AA482711, AW029038, AI284640, AW276827, AI350211, T58118, AI570261, AI431303, AI345654, AI281881, AW303196, AW274349, AI434695, AW438643, AW301350, AI334443, AI619997, AI270117, AA826303, AA649642, AI963720, AI918421, AI610159, AW265385, AW088202, AI299050, AI904894, AI254615, AA491762, AI327868, AI358571, AA503015, AA682912, AA653618, AA469451, AI039790, AA843450, AI564185, AA573020, AI358501, AA613227, AA559290, AI567076, AA610491, AI305766, AW270270, AL038785, AA525190, AA587604, AW103758, AA507547, AW276435, AA720702, AI249997, AL047427, AA586458, AI368745, AI801600, AI919265, AA503154, AA581903, AL044940, AI801482, H84783, AA259245, AI307608, AA503258, AW021583, AI732120, AI792518, AW080134, AI457397, AI434706, AI583612, AA810318, AW021207, AA846935, AW406447, AA657918, AW008952, AW071196, AI251436, AI053790, AI267818, T53607, AI890923, AW439558, AA483771, AW088846, AI049722, AW166815, T15977, AI929531, AA148489, AW419262, AA630925, AA837084, AA623002, AI567674, AI281903, N94233, AW304584, AI471481, AI355206, AI754658, AA491284, AI792505, AI688846, AW193432, AI339850, AI251002, AL037683, AI866856, AW238278, AA713815, AL138455, AI133636, AW162049, AW339687, AA515051, AI962050, AI937850, AA847499, AW023389, AL119691, H71429, AA062722, AI754253, AI083946, AW083402, AI886629, AA513141, AW062724, AI133164, AI446464, AI061334, AI635272, AA525824, AA482681, AA631507, AI358343, F28204, AA652057, AA488746, AI499503, AW440836, AI653886, AL048925, AA229785, AA501872, AA350859, AI368256, T29180, AA501614, AA348929, AA502963, AA503473, AI334435, AI250552, AA664407, AI654247, AW304805, AA669251, AI312309, AW020992, AA834667, AA113186, AW167799, AA099892, AW020141, AI251034, AI254770, AI589230, AA659083, AI192631, AW261871,

HEIAX11	8790	967272	1 - 412	15 - 426	AI903462, AA584145, AI469003, AA578918, AL046409, AA496260, AA640986, AI696962, AL138265, AI223626, AI568678, AI291124, AL044858, T08914, AA654771, AA857486, AL043719, AA569471, AI654588, AI298710, AW104748, AI345681, AI345675, AW302117, AW236342, AI284543, AI249853, AI890918, AI344844, AF015160, D83989, A39972, X55930, AF077058, U18398, U57006, I51997, AF015167, U57005, U57009, U18391, U18392, L35531, U18394, X55925, U18390, X75335, X54180, U18395, X55926, U57008, X55932, X55924, M37551, AC004647, U18387, AF015153, U57007, U18396, U18399, X55931, X54179, X54175, X54181, X54178, U18400, X55928, U67801, X55922, AF015156, AF015151, U12584, U12582, AC007216, X55923, AL035681, AF015157, S75201, AF015158, AF015151, U12584, U12582, AF015162, U67221, X54177, AL022476, U12580, U95742, AC005971, AF015171, AL031662, AC000097, AF015148, AF015169, AC007666, Z22650, S48196, AC006547, AC005778, AF015149, X55927, L47228, AF015170, U57004, U11309, AF015147, AL031257, AC005069, AC016025, AC005566, M96868, AF015150, AC004854, AC004802, AF019114, AC005736, AC002984, AL031274, AL023879, U02532, AL049776, U67831, AC005081, U67231, AC006441, AC008134, AC006040, AC004224, AL049757, AL135744, AC001231, AC006481, AC005747, AP000966, D88268, AC005048, AL049636, AC007151, U67234, AC007773, AP000567, U02507, AL035071, Z49816, U14718, AF015168, AC008033, AC007043, S43650, AC004139, AL021391, AF015165, AC005841, U14719, Z84480, U67832, AC000052, AC004967, AB023049, U12581, AP001043, Z82180, X74558, AC005531, D87008, AC007227, AC007064, Z98050, AC002395, AL109759, U35114, AL080243, U50570, U14713, X96421, AC010197, AP000023, S75337, AC004417, U02531, U18393, U14714, AC004947, AC004812, AC005520, AC000353, U67229, AD001527, AL035423, AC004686, AJ229042, M87919, AC003109, AC005354, AL031256, AL031121, U67825, AF064861, AC006030, AL031904, AL031282, AC005084, AC005924, AC004668, Z93241, AC007447, AC005544, U67233, AC000004, AC007363, AC005280, AC003003, AC004263, AL121934, AL080276, U14711, U14712, AC004408, AC004889, AL050097, AL049635, AC005064, AC004913, AL031073, AP000275, U91322, AC005231, AC016026, AC004534, AC004918, U67211, AP000512, AL078472, U67235, AC008039, AC006305, AC004890, AL035415, AF064863, AC000083, AL033543, AP000432, AC006548, AL078644, AC004544, AC005257, AC002364, AC000075, U14715, AP001172, AL031255, Z97876, AF135028, AC004066, AL008582, AP000105, AP000037, AP000513, Z93023, AC004894, AC006285, AC002128, AF010238, AL022316, AC012599, AC004838, U67226, AL035089, AL133382, AL035659, AL136295, AC004964, AF110324, AF015725, AC004671, AC006312, AL049764, AC005756, and AP000252.
HEIAX11	8790	967272	1 - 412	15 - 426	AI951431, and AW166781.
HEIAU39	8791	861503	1 - 354	15 - 368	AW291698, AW449355, AA077663, and AI624833.
HEIAR07	8792	953626	1 - 396	15 - 410	AA160979.
HEIAJ39	8793	705643	1 - 388	15 - 402	AA262593, AW055245, AA765419, AI268356, and AI919028.